ATLAS
tiling systems

CERAMIC AND STONE CLADDING
SYSTEMS GUIDEBOOK

foreword

ATLAS Group is an indisputable leader and the greatest manufacturer of building chemicals in Poland. The Group consists of 20 entities, mostly manufacturers of cement, gypsum, bitumen and epoxy materials. They offer huge scope of construction products developed for use at any phase of building projects. ATLAS processing plants are located mainly in Poland, but also in Belarus and Romania. Group products are exported not only to the most demanding European markets, including Germany, Great Britain, Ireland, Czechia, Slovakia, Belgium, Russia, Ukraine, Baltic and Scandinavian states, but also to Asia, Caribbean and Oceania.

ATLAS Group also includes suppliers of raw materials used in production of building chemicals – quartz sand, gypsum and anhydrite (excavated in opencast and deep mines) as well as expanded perlite. Access to a base of own raw materials facilitates preservation of high quality of goods, allows to lead sustainable management and responsible exploitation of available natural resources. ATLAS Group designs products with care for natural environment at any stage of their lifespan. Our research and development laboratories, equipped with modern measuring and testing devices, belong to the biggest and the most comprehensive objects of this type in Poland. They gather experts in chemistry, chemical engineering and construction who endeavor to design advanced, pioneering materials.

The key element of the marketing strategy of ATLAS Group is communication and support for contractors in solving their problems occurring in the process of construction. The Group also engages in improvement of professional qualifications of contractors, inter alia, in the form of numerous trainings led by outstanding team of coaches of vast building experience. Only in 2017 ATLAS trained over 41,000 installers.

Building professionals intensively cooperate with the company in preparation and validation of new products. Only materials checked and confirmed in real construction site conditions get marketed afterwards. Last year we conducted over 660 validation tests in order to check products quality and performance. We also hold the largest sales team and provide comprehensive marketing support.

Owing to almost 30 years of experience in designing, manufacturing and application of our products, ATLAS is capable of offering building materials of highest quality, durability and safety of use. Close cooperation with professionals allows immediate reaction to the market demand.

ATLAS
tiling systems

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GRUDZEŃ
LAS


NOWYLAD
białe mocne gipsy


DOLINA NIDY


GIPS
KOPALNIA LESZCZE


FOX
DEKORATOR


Zaprawy cementowe
Optyzar


WIM


Cesal®


GIPSAR


ATLAS


AVAL


ATLAS ZŁOTY WIEK
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NIDA media


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PARTNER


Chemiks


FUNDACJA
DOBROCZYNNOŚCI
ATLAS

ATLAS group

Company ATLAS was set up over 25 years ago in Łódź, Poland. Currently ATLAS forms a huge holding of over 20 entities – manufacturers of construction chemicals and raw materials used in production of building products. Our infrastructure includes factories of cement, gypsum, dispersive and bitumen materials.

ATLAS Group is an unquestionable leader of Polish market of construction chemicals and successful exporter – with distribution network in Germany, Great Britain, Ireland, Holland, Portugal, Czech Republic, Slovakia, Russia, Baltic states, Scandinavia, Mongolia, Kazakhstan, New Zealand, Barbados and many other countries worldwide.

ATLAS Group portfolio is prepared in relation to current market demand and users expectations. It includes over 1,000 products and a few thousands of comprehensive technological systemic solutions for construction and refurbishment, for individual and multi-family housing, for public and industrial investment.

Products quality, technology and creation is supervised by the Research and Development Laboratory. Almost 100 people are engaged in the process of preparation of new product offer, improvement of the existing one and search for new technological solutions.

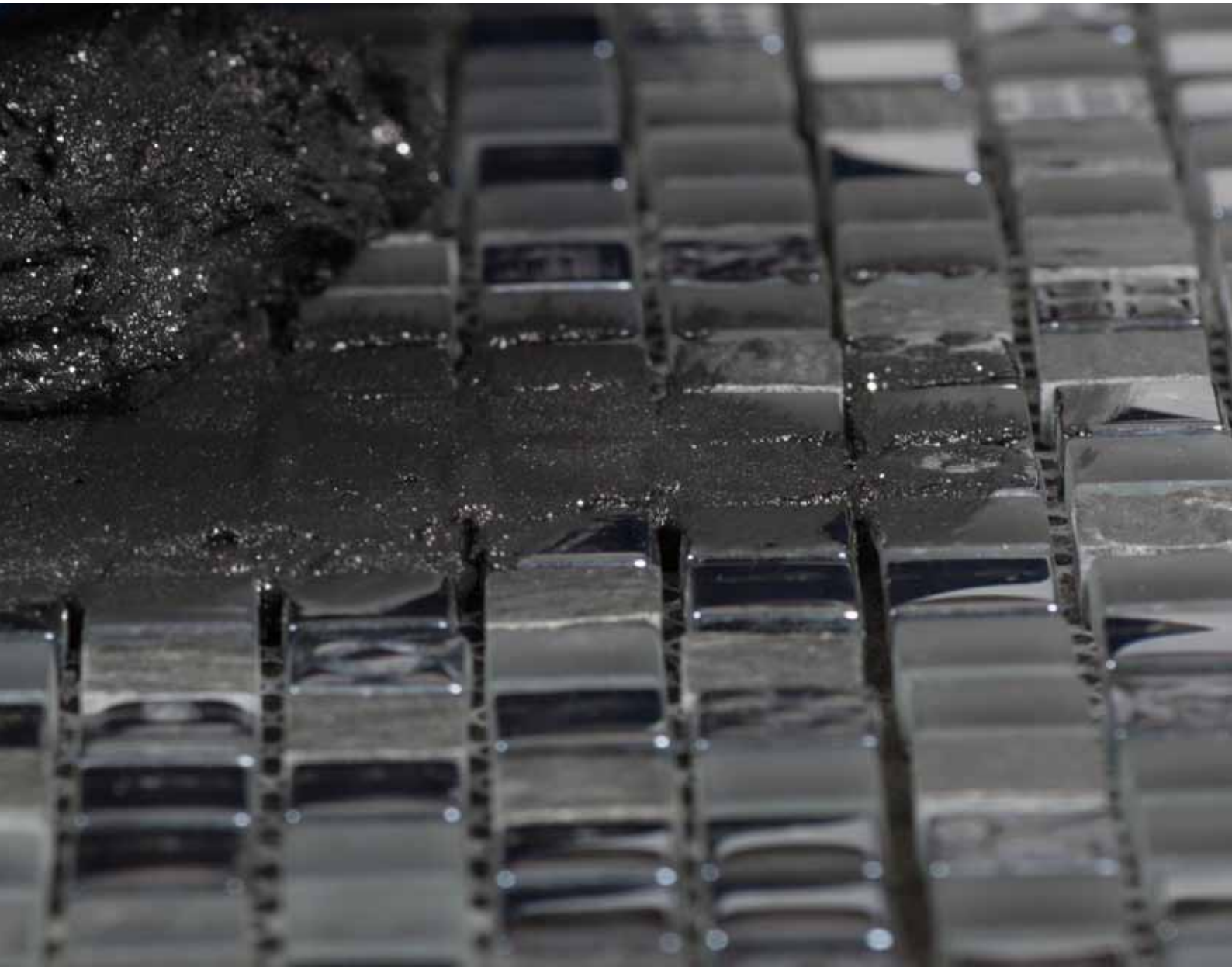
ATLAS leads a successful program of cooperation with professionals – we offer wide range of trainings, certification and day-to-day support. We work with construction schools in Poland, teach students and lecturers. We also provide manuals and products for practical trainings.

ATLAS IS NOT ONLY QUALITY, TECHNOLOGY, SOCIAL
ENGAGEMENT AND LIFETIME MARKET EXPERIENCE,
IT IS ALSO CARE FOR BEAUTY, AESTHETICS AND DETAILS.


GRUPA ATLAS
ATLAS
sped

grouts

characteristic of grouts



ATLAS PROJECT, DECORATIVE GROUT, COLOUR BLACK DIAMOND 304

ATLAS grouts has been designed to respond the newest trends, practicality, safety of use and durability of solutions. They bring the greatest colour range which allows to choose a grout matching individual tastes and nature of a room.

DURABLE AND INTENSIVE COLOURS FOR YEARS

ATLAS grouts guarantee excellent colour durability, resistance to efflorescence and discolouration in long time operational use. This performance is ensured by strictly selected inorganic pigments. Highly hydrophobic surface efficiently protects joints against penetration of dirt and moisture. Great resistance to washing, scrubbing and abrasion as well as to detergents action allows to keep the grouts clean within their whole lifetime.

PROPERTIES OF ATLAS GROUTS

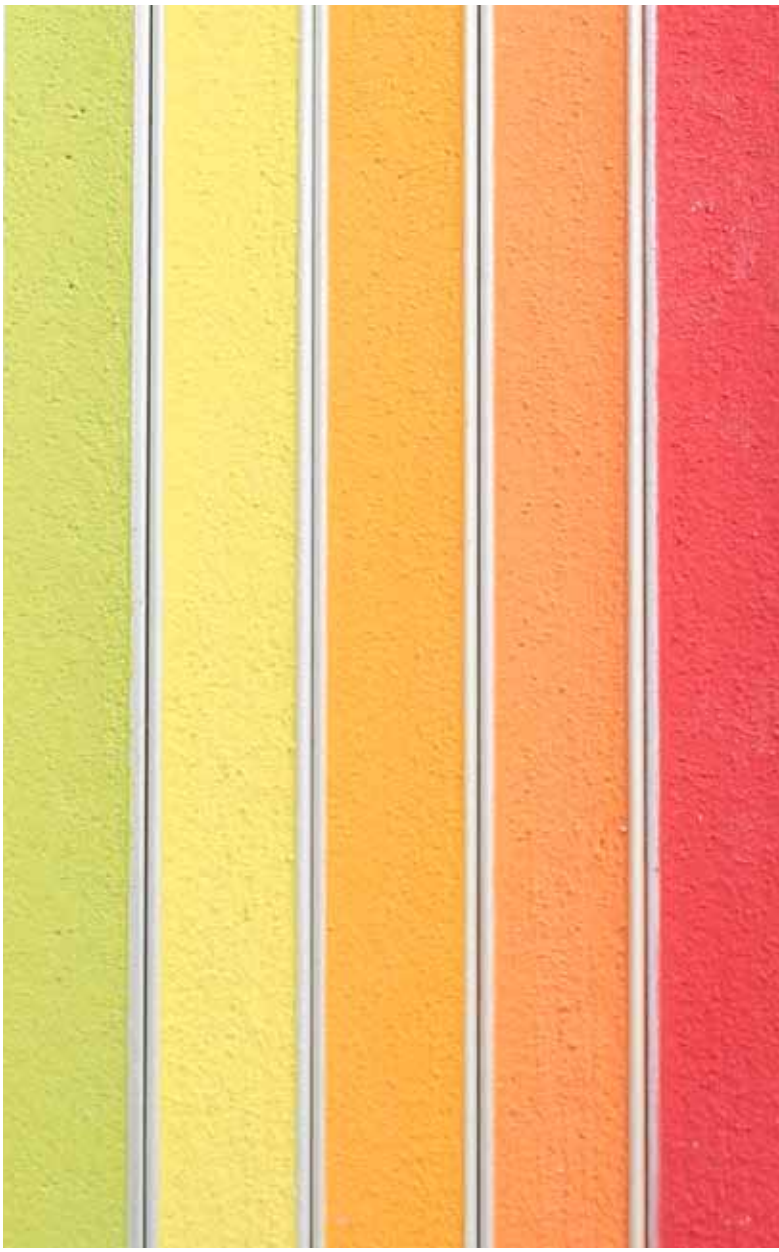
- resistance to microcracking and cracking owing to the content of appropriately selected aggregates, polymers and mix of cement,
- full protection against development of mould, algae and bacteria, also in case of frequent dampness, based on the use of active ions of silver and bioactive substances,
- durable colours resulting from improved resistance to UV radiation, abrasion and soiling,
- possibility of application with any types of cladding owing to excellent bonding and broad range of joint width.

grout colour chart

The colour chart is divided into groups of shades. It facilitates selection of grouts in order to meet individual taste and nature of a room.

ATLAS CEMENT GROUT
Highly flexible, rapid set **ARTIS GROUT**, particularly resistant **TIGHT GROUT** and perfectly smooth **ELASTIC GROUT** are available in ATLAS portfolio in amazing chart of 40 colours matching the most current market trends.

Colours of ATLAS grouts are divided into three groups:
- whiteness and greyness – for minimalistic interiors
- beiges and browns – for atmospheric interiors
- intensive colours – for contemporary and way-out interiors.



* ATLAS ELASTIC GROUT is available in 37 colours.

whiteness and greyness

whiteness and greyness

MINIMALISTIC AND BRIGHT INTERIORS

TUBĄDZIN PROJECT, INDUSTRIO COLLECTION, ATLAS ARTIS GROUT, COLOUR LIGHT GREY 036

White and grey shades bring an optimum solution to contemporary, rough interiors with elements of concrete. They visually enlarge the space of a room. Possibility of perfect selection of grout matching the ceramic cladding allows to form pure, uniform surface.

ATLAS grout colour chart includes as many as three shades of whiteness – cold white, white and warm white – and as many as nine shades of greyness: from very bright ashy to deep black.

WHITENESS AND GREYNESS
COLOURS OF GROUTS AND SILICONES

200 **COLD WHITE**

001 **WHITE**

201 **WARM WHITE**

202 **ASHY**

034 **LIGHT GREY**

035 **GREY**

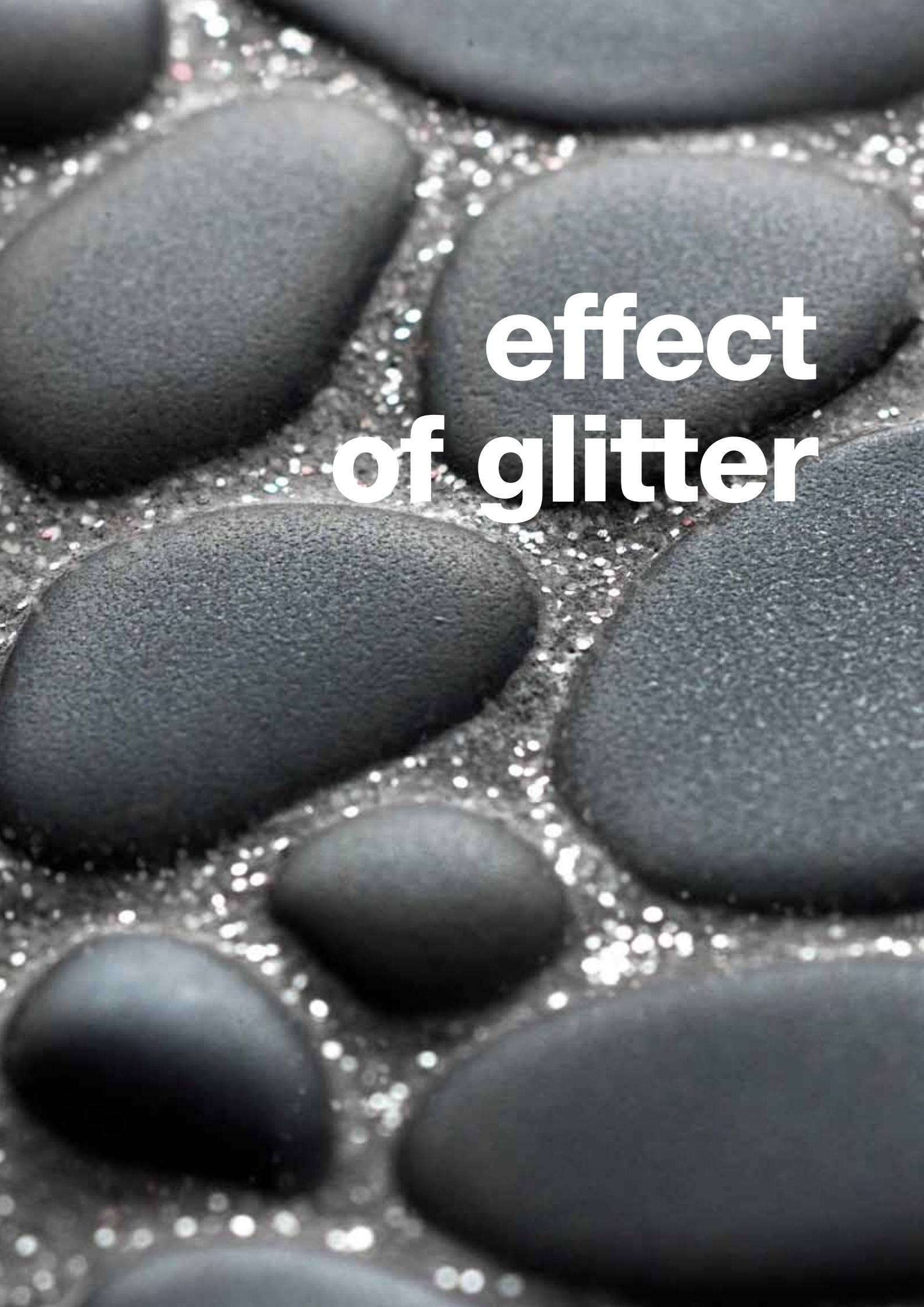
203 **STEEL**

136 **SILVER**

036 **DARK GREY**

037 **GRAPHITE**

204 **BLACK**


effect
of glitter

effect of glitter
GLAMOUR INTERIORS

TUBĄDZIN PROJECT, PARIS COLLECTION, ATLAS DECORATIVE GROUT, COLOUR BLACK DIAMOND 304

It is an outstanding solution which allows to emphasize inimitable style, underline uniqueness and richness of **GLAMOUR** interiors.

This grout, used in contemporary projects as a supplement to the main mortar imitating rough concrete, warms up the whole interior.

ATLAS DECORATIVE GROUT perfectly underlines alterity and character of way-out rooms. It looks well both in womanly space and in strict, manly climate. Flecks of glitter give smartness and emphasize the space uniqueness.

ATLAS created a chart of five most trendy shades of whiteness and greyness and gave them nobility by joining fancy colours with the effect of glitter.

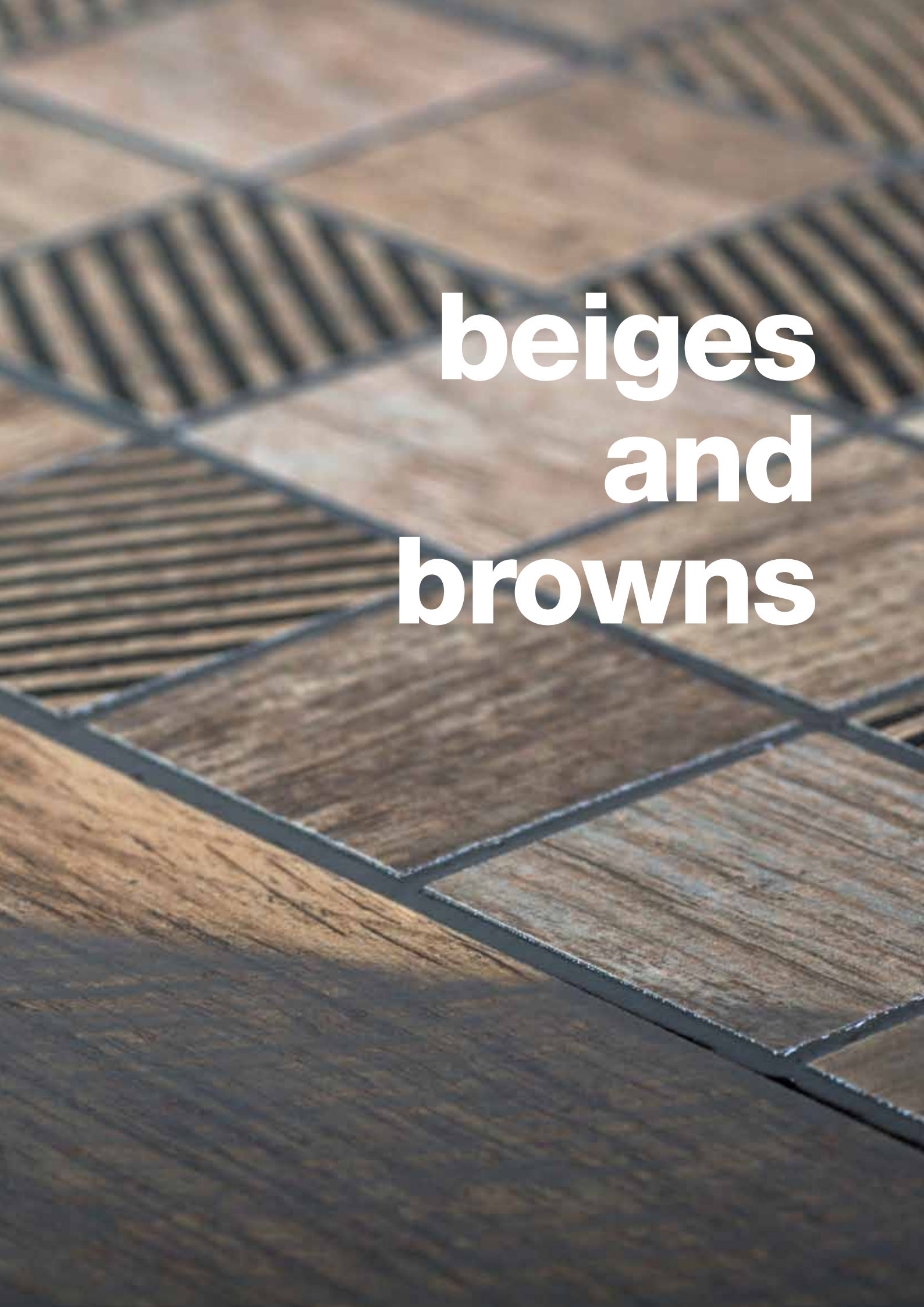
300 **ALABASTER**

301 **PEARL**

302 **OPAL**

303 **ZIRCONIA**

304 **BLACK DIAMOND**


beiges
and
browns

beiges and browns

WARM AND COSY INTERIORS

TUBĄDZIN PROJECT, KORZILIUS COLLECTION, WOOD COLLECTION, ATLAS TIGHT GROUT, COLOUR JASMINE 118

Currently the most popular interior designs are dominated by the beige colour and its shades. They keep simple elegancy and remind warmth of a family home. Owing to neutrality and naturalness they match many types of ceramics and can be used in almost any room. Depending on intensiveness, beige colour can keep cream, cappuccino, latte and even light brown shade.

This natural, gentle colours look particularly well when accompanied by shades of earth. They amazingly match green, brown or even dark wenge. Ceramic cladding imitating natural timber, supported by perfectly selected grout, offers an excellent solution for this climate. Broad chart of brown and beige **ATLAS GROUTS** brings almost unlimited potential of arrangement. Colours such as: grey-brown, cement, nut brown and other brown ones emphasize beauty and underline shade of a cladding.

118 **JASMINE**

018 **PASTEL BEIGE**

019 **LIGHT BEIGE**

205 **CREAM**

206 **CAPPUCCINO**

020 **BEIGE**

207 **LATTE**

210 **COCOA**

120 **TOFFI**

123 **LIGHT BROWN**

209 **CHESTNUT**

024 **DARK BROWN**

124 **DARK WENGE**

212 **GREY-BROWN**

211 **CEMENT**

036 **BROWN**

022 **WALNUT**


intensive
colours

intensive colours

MODERN, WAY-OUT INTERIORS

ATLAS VISUALISATION, ATLAS TIGHT GROUT, COLOUR LEMON 218

Recent years have brought figured cladding of intensive colours. It gives a chance of outstanding change of an interior and forms unique climate. Even a single colourful, extraordinary element can have impact on it. Such rooms, being kind of variegated collage, support creativity, energy and cheerful mood.

ATLAS offers 12 intensive colours of grouts which can meet even the most rad designs.

215 **INK**

031 **SEABLUE**

117 **VIOLET**

214 **LILAC**

216 **RED**

219 **ORANGE**

213 **MANDARINE**

218 **LEMON**

220 **AVOCADO**

025 **LIGHT GEEN**

027 **GREEN**

217 **TURQUOISE**

colour chart

COLOURS OF GROUTS AND SILICONES

200 **COLD WHITE**

001 **WHITE**

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classification of grouts
DIVISION AND REQUIREMENTS

A jointing mortar, called a grout or a grouting mortar, is a material used for filling joints between ceramic or stone tiles.

Grout can be manufactured on basis of cement or reactive resins, e.g. epoxy resin. Type of base material is crucial for strength and operational performance of a product (e.g. its absorptiveness).

Grouts are classified in accordance to the standard *PN-EN 13888:2010 Grout for tiles*. *Requirements, evaluation of conformity, classification and designation.* The standard classifies grouts according to 2 types depending on the chemical base and the type of setting:

CG – cement grouts (hydraulic binding)
RG – on basis of reactive resins (chemical binding)

Cement grouts (CG) are divided into 2 classes depending on their supplementary performance:

Class 1 – cement mortal of normal setting

Class 2 – cement mortar of enhanced parametres with additional requirements which are:
– reduced water absorption (W)
– high resistance to abrasion (A)

All ATLAS GROUTS are classified as CG 2 WA, which means they are cement grouts of enhanced parametres, high resistance to abrasion and reduced water absorption.

REQUIREMENTS ON GROUTING MORTARS

TYPE AND CLASS	DESCRIPTION
CG 1	cement grouting mortar of basic parametres
CG 2 WA	cement grouting mortar of enhanced parametres (W and A)
RG	mortar based on reactive resin

REQUIREMENTS ON GROUTING MORTARS

REQUIREMENTS	TYPE AND CLASS		
	CG 1	CG 2 WA	RG
resistance to abrasion	≤ 2000 mm^3	≤ 1000 mm^3	≤ 250 mm^3
bending strength when kept in dry conditions	≥ 2,5 N/mm^2	≥ 2,5 N/mm^2	≥ 30 N/mm^2
bending strength after freeze-thaw cycles	≥ 2,5 N/mm^2	≥ 2,5 N/mm^2	n/a
compressive strength when kept in dry conditions	≥ 15 N/mm^2	≥ 15 N/mm^2	≥ 45 N/mm^2
compressive strength after freeze-thaw cycles	≥ 15 N/mm^2	≥ 15 N/mm^2	n/a
contraction	≤ 3 mm/m	≤ 3 mm/m	≤ 1,5 mm/m
absorption of water after 30 minutes	≤ 5 g	≤ 2 g	n/a
absorption of water after 240 minutes	≤ 10 g	≤ 5 g	≤ 0,1 g

SOURCE: PN-EN 13888:2010 GROUT FOR TILES. REQUIREMENTS, EVALUATION OF CONFORMITY, CLASSIFICATION AND DESIGNATION.

examples of use
GROUTS

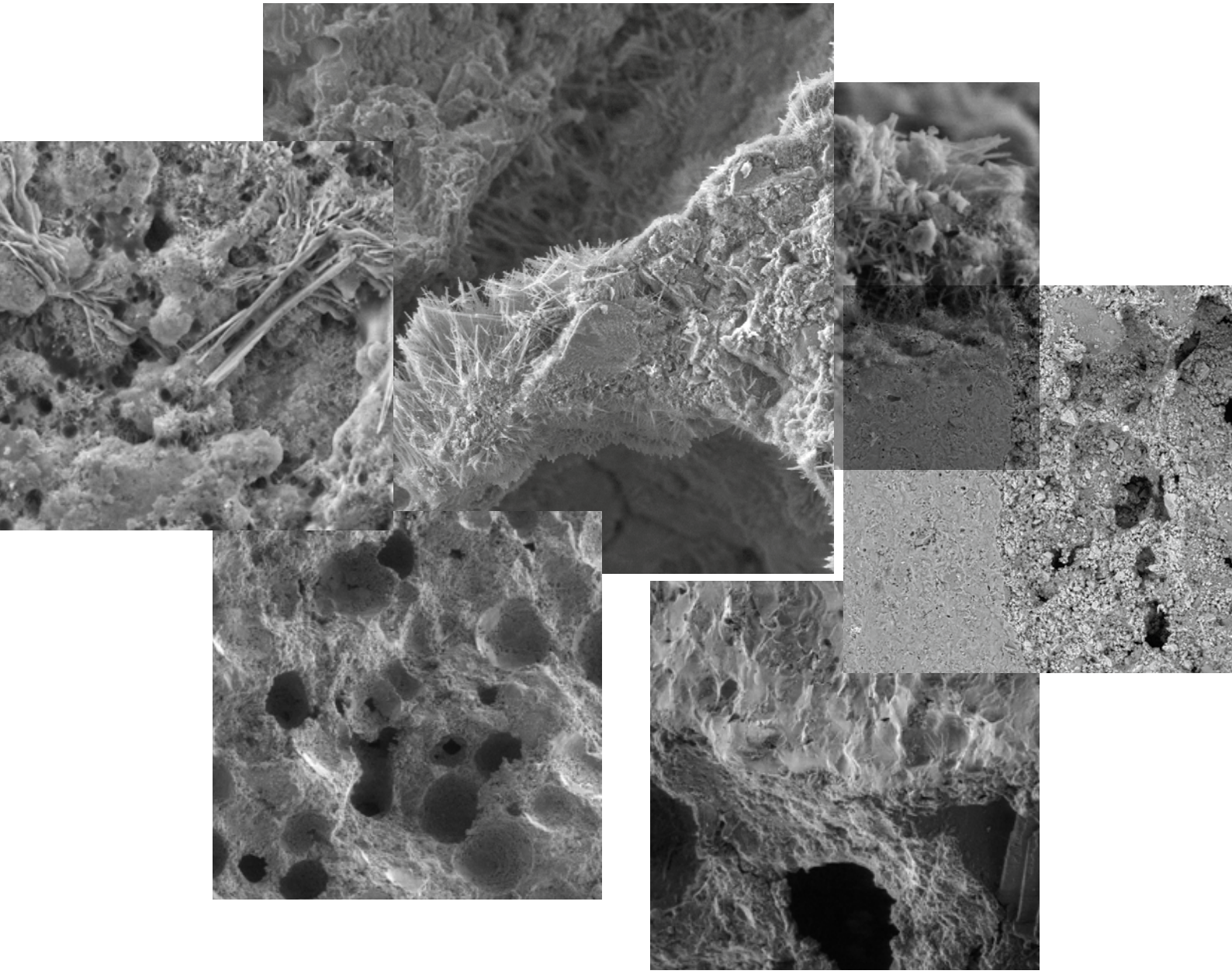
	ATLAS ARTIS GROUT	ATLAS ELASTIC GROUT	ATLAS TIGHT GROUT	ATLAS GROUT	ATLAS DECORATIVE GROUT	ATLAS EPOXY GROUT
TYPE OF SUBSTRATE BENEATH TILES						
Concrete, cement, anhydrite screeds, etc.	+	+	+	+	+	+
Floors and walls with water or electric heating system	+	+	+	use ATLAS ELASTIC GROUT	+	+
Walls of concrete, ceramic brick, silicate brick, with ceramic elements	+	+	+	+	+	+
Walls of cellular concrete, gypsum blocks	+	+	+	+	+	+
Cement, cement-lime, gypsum plasters, etc.	+	+	+	+	+	+
Walls and drylining of plasterboards, incl. fireplace casing	+	+	+	use ATLAS ELASTIC GROUT	+	+
Timber, OSB floors, dry gypsum screed	+	+	+	use ATLAS ELASTIC GROUT	+	+
Steel, plastic substrates	+	+	use ATLAS ARTIS GROUT	use ATLAS ELASTIC GROUT	use ATLAS ARTIS GROUT	+
Intensiveness of traffic						
Low traffic (individual housing)	+	+	+	+	+	+
Medium traffic	+	+	+	+	use ATLAS ARTIS GROUT	+
Heavy traffic	+	+	+	use ATLAS ELASTIC GROUT	use ATLAS ARTIS GROUT	+
Water and chamical load						
Surfaces temporary washed with water	+	+	+	+	+	+
Surfaces frequently washed with water	+	+	+	+	+	+
Surfaces washed with water with detergents (used in household)	+	+	+	+	+	+
Surfaces washed with aggressive chemicals	+**	+**	ATLAS EPOXY GROUT recommended	ATLAS EPOXY GROUT recommended	ATLAS EPOXY GROUT recommended	+
Surfaces exposed to chemical load	+**	+**	ATLAS EPOXY GROUT recommended	ATLAS EPOXY GROUT recommended	ATLAS EPOXY GROUT recommended	+
Surfaces washed mechanically	+	+	ATLAS ARTIS GROUT recommended	ATLAS ARTIS GROUT recommended	ATLAS ARTIS GROUT recommended	+
Surfaces washed with pressure washers	+	+	+	ATLAS EPOXY GROUT recommended	ATLAS EPOXY GROUT recommended	+

	ATLAS ARTIS GROUT	ATLAS ELASTIC GROUT	ATLAS TIGHT GROUT	ATLAS GROUT	ATLAS DECORATIVE GROUT	ATLAS EPOXY GROUT
SINGLE- AND MULTI-FAMILY HOUSING						
Living rooms	+	+	+	+	+	+
Kitchens and kitchenettes	+	+	+	+	+	+
Halls and antechambers	+	+	+	+	+	+
Bathrooms	+	+	+	+	+	+
Washrooms	+	+	+	+	+	+
Balconies	+	+	+	+	+	+***
Terraces	+	+	+	+	+	+***
Garages in single-family housing	+	+	+	+	use ATLAS ARTIS GROUT	+
Garages in multi-family housing	+	+	+	use ATLAS ELASTIC GROUT	use ATLAS ARTIS GROUT	+
External stairs	+	+	+	ATLAS ELASTIC GROUT recommended	ATLAS ARTIS GROUT recommended	+***
Plinth ceramic cladding	+	+	+	+***	+***	+***
Façade ceramic cladding (also on external wall thermal insulation systems)	+	ATLAS ARTIS GROUT recommended	+	ATLAS ARTIS GROUT recommended	ATLAS ARTIS GROUT recommended	+
Office buildings						
Offices	+	+	+	+	+	+
Kitchens and kitchenettes	+	+	+	+	+	+
Bathrooms and showers	+	+	+	+	+	+
Corridors and staircases	+	+	+	ATLAS ELASTIC GROUT recommended	+	+
Large size garages	+	+	+	ATLAS ELASTIC GROUT recommended	ATLAS ARTIS GROUT recommended	+
Elements of small architecture	+	+	+	ATLAS ELASTIC GROUT recommended	ATLAS ARTIS GROUT recommended	ATLAS ARTIS GROUT recommended
Façade ceramic cladding	+	+	+	ATLAS ELASTIC GROUT recommended	ATLAS ARTIS GROUT recommended	+
Terraces and balconies	+	+	+	+	+	+***
External stairs	+	+	+	ATLAS ELASTIC GROUT recommended	ATLAS ARTIS GROUT recommended	+

* test the grout action on a tile in each case
** evaluation of scale of chemical load and confirmation of resistance needed
*** contact ATLAS technical advisors if in doubt

adhesives for tiles

gel technology
GEL SYSTEMS FOR ADHESIVES



ATLAS GEL TECHNOLOGY

One of unique solutions introduced in ATLAS adhesives for tiles is the technology of siliceous gel. Its idea is based on utilization of special absorbable mineral admixtures in the mortars compositions. Water, when in contact with these minerals – fine crystals distributed among layers – penetrates in between and forms a "sandwich" structure (two layers of crystals with one layer of water between them). Water present in such structure is trapped within and forms gel deciding about the outstanding material performance. Siliceous gel broadens the range of mixing water needed for the adhesive preparation. It does not only eliminate the risk of overwatering, but most of all gives possibility of adjustment of mortar workability depending on actual needs and user's preferences. Each adhesive with **ATLAS GEL TECHNOLOGY** can be prepared as a mortar of limited slip allowing tiling from top to bottom and as a self-spreading one guaranteeing excellent filling of spaces beneath large tiles with no phenomenon of sinking of heavy cladding.

Additionally, owing to strong reaction between water and crystals, evaporation of water, resulting from temperature around or absorption by absorbable, improperly prepared substrate, is significantly reduced. Presence of water held in the adhesive structure allows complete cement hydration at almost any application conditions, regardless the cladding type. Owing to appropriate water management, gel adhesive guarantees full bonding to so called difficult substrates. Greater retention brings wider range of conditions during application, both concerning temperature of use and substrate absorptiveness. This range is unavailable for commonly marketed standard cement adhesive mortars.

ATLAS GEL TECHNOLOGY decides about universality and versatility of mortars use. Adhesives can be applied on the most difficult substrates, i.a. terrazzo, OSB boards or existing cladding. These products are designed for the most demanding operational use, e.g. in industrial halls loaded with intensive vehicle traffic. The range of use of mortars with gel technology also includes full scope of cladding types and sizes, natural stone tiles, cladding vulnerable to discolouration and tiles of largest formats, even above 1 m^2.

The main advantages of ATLAS GEL TECHNOLOGY are:
- possibility of adjustment of consistency to needs and individual user's preferences – based on broader range of mixing water ratio than available with standard cement mortars,
- safe cladding fixing on substrates exposed to direct sunlight, both during mortar application and setting, e.g. on sunny terraces and balconies,
- excellent rheology, therefore easy application and outstanding workability,
- full adhesive spread, even beneath large tiles, which improves bonding and fixing durability,
- safe installation of cladding of any type – both absorbable and non-absorbable.

gel technology
INNOVATIVE SILICEOUS GEL

GEL TECHNOLOGY

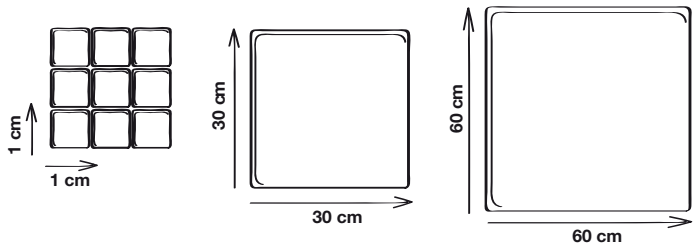
Special mix of minerals forms siliceous gel accumulating vast amount of water, owing to which GEOFLEX line adhesives get unique properties:
- exceptionally easy application
- broader range of use
- extended time of cladding adjustability
- rapid and full setting in extreme application conditions and on difficult substrates

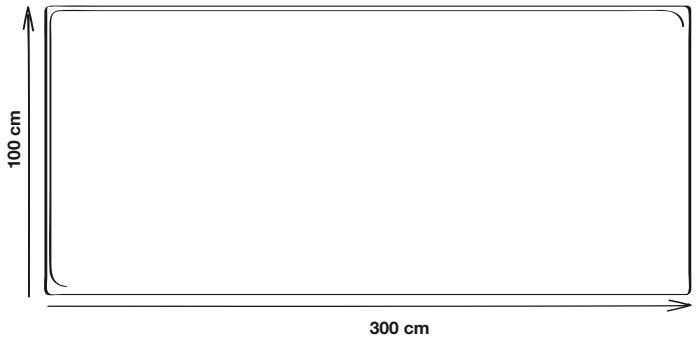
Range of use:
- floor and wall heating systems
- kitchens, bathrooms, washrooms, garages
- communication routes,
- terraces,
- balconies, loggias,
- external stairs,
- building façades and plinths
- pools, fountains, saunas
- public access, industrial objects, car washes, etc.

Substrates:
- concrete
- plasterboards, gypsum fibre boards, cement fibre boards
- cement screeds and floors
- anhydrite screeds
- walls of cellular concrete, bricks, blocks
- waterproofing
- old tiles (tile on tile)
- old paint coatings
- timber floors
- OSB boards and timber
- insulating and acoustic panels
- metal and steel surfaces
- plastic surfaces
- terrazzo
- asphalt screeds

TUBĄDZIN PROJECT, BERLIN COLLECTION, ATLAS ARTIS GROUT, COLOUR SILVER 136

gel technology
TYPES OF TILES





Any sizes of tiles:
- small and medium format (≤ 0.1 m²)
- large format (≤ 0.25 m²)
- extra large format (> 0.25 m²)
- mega format (≥ 1 m²)
- slim type tiles (≥ 3 m²)

Any types of tiles:
- glazed tiles
- terracotta
- porcelain and laminated gres
- natural stone (granite, marble, travertine, syenite, slate, etc.)
- clinker
- stoneware
- ceramic mosaic
- glass mosaic
- glass, coloured, printed tiles, etc.
- concrete/ cement mortar tiles
- composite panels
- insulating and acoustic panels

technology of double fibres
PROPERTIES

DOUBLE FORCE

ATLAS TECHNOLOGY OF DOUBLE FIBRES

The use of fibres for reinforcement of building structures has been known for over 3,500 years – as far ago as in ancient Egypt earthen bricks were strengthened with straw. Owing to advance of science, nowadays we know that fibers not only can improve strength of mortars where they are dispersed in, but also show many other advantages. Technological development of chemicals and materials engineering allowed to replace simple materials with modern synthetic ones, e.g. polymer and natural materials subject to appropriate technical and chemical modifications. In construction, the mostly used fibres are polypropylene and cellulose ones.

Polypropylene fibres are synthetic fibres created as an effect of propylene polymerization. Polypropylene is a material of very high chemical resistance against action of acids, bases, solvents or salts, thus it is extremely durable. These fibres are hydrophobic, almost non-absorbable, therefore resistant to microbiological corrosion. Polypropylene fibres in cement mortars improve their mechanical performance, as they form dispersed structural reinforcement.

Cellulose fibres are formed in the process of appropriate plants processing, e.g. timber, bamboo or reed. Proper mechanical and chemical actions allow to form fine strands. They show many properties significantly influencing performance of the cement system. Under action of water, they get elastic and tenacious, increase their volume and enable free transportation of water along fibres, therefore have significant impact on mortar workability – they improve rheology, reduce slip, extend open time and improve substrate wettability. Mortars containing fibres prevent excessive water retention by a substrate, thus they reach better technical parametres after setting, just to mention bonding to substrate or strength.

The use of appropriate mix of fibres significantly improves adhesive parametres, both those related to user's expectations concerning workability and those related to long time durability, even in extremely difficult operational conditions. This feature is particularly important for investors.

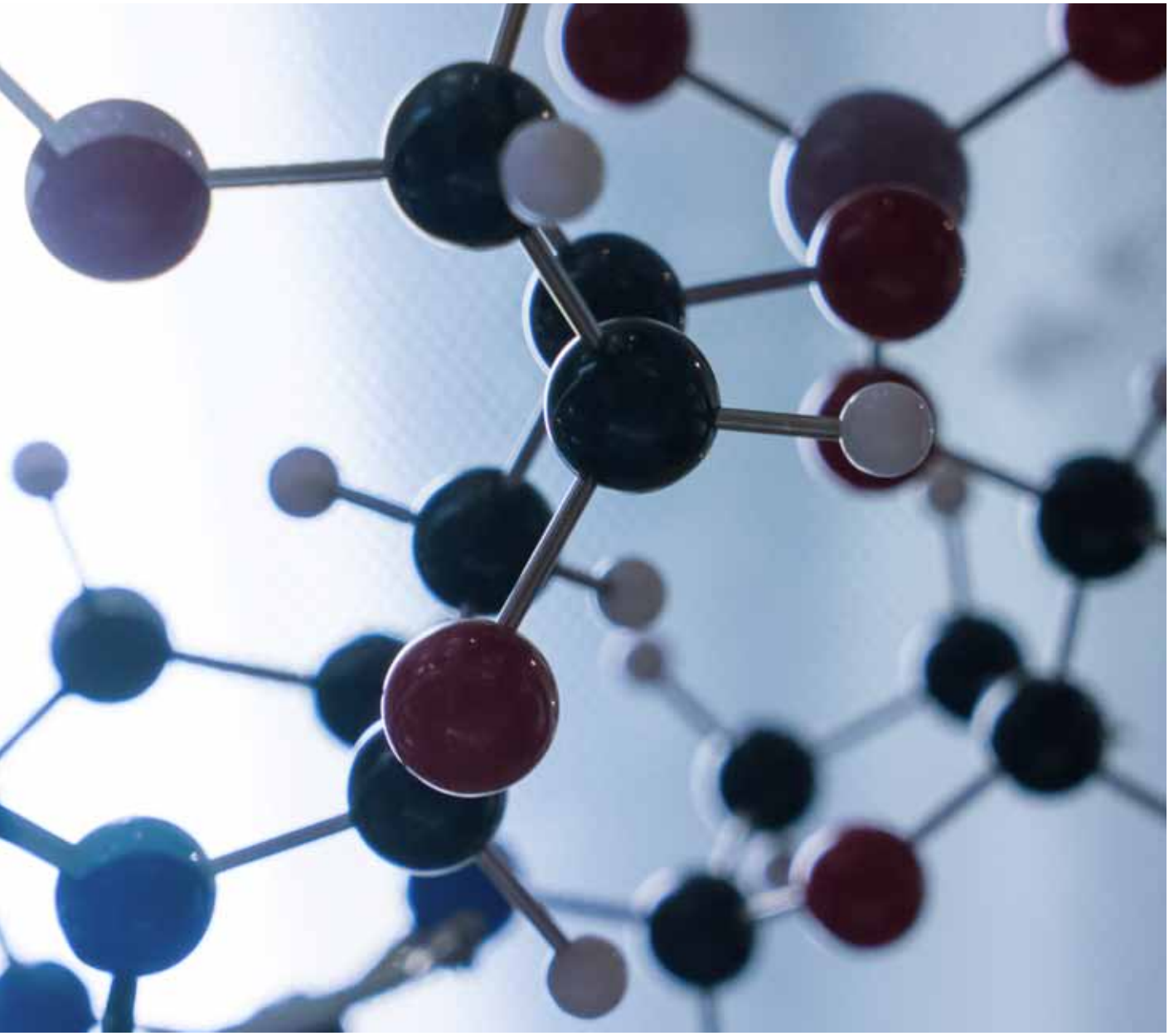
ATLAS DOUBLE STRENGTH OF FIBRES

The use of reinforcing fibres improves flexural strength and significantly increases impact resistance. The content of polypropylene fibres also improves resistance to abrasion and reduces influence of atmospheric conditions.

Fibres also act as structural reinforcement and actively reduce risk of mortar cracking during the first days of stabilization. They effectively improve the adhesive ability to absorb internal and external tensions and vibrations.

The use of mix of different types of fibres in new ATLAS solutions decides about:
- significant improvement of workability – easy application and better tiles stability just after fixing,
- improved strength parametres,
- significant improvement of resistance against heavy operational loads, impacts and vibrations,
- safe installation at high temperature,
- compensation of microcracking at the stage of mortar setting and operational use.

polymer technology
PROPERTIES



2X DOUBLE FORCE

ATLAS POLYMER TECHNOLOGY

Owing to long time experience and testing led in our laboratory, ATLAS adhesive mortars competently introduce modern polymer technologies to the world of construction. Presence of polymers in the cement mortars allows almost free creation of product properties. Synthetic polymers, being an ingredient of flexible and deformable adhesives, are mixes of redispersible powders, i.e. liquid polymers subject to special process of drying. They are added at the phase of manufacturing and homogenized with cements, aggregates and other modifiers.

In contact with mixing water, a protective colloid, which seals a molecule of a synthetic binder, dissolves – this action simultaneously activates the process of formation of durable and flexible bond. The action of polymer binding consists in "disposal" of previously absorbed water. It is used as a "fuel" for the main adhesive component, i.e. cement, which is a hydraulic binder and requires plenty of it. It brings additional protection in case of tiling on absorptive or poorly bonding substrates. Moreover, the net of polymer microbonds hampers the process of water evaporation and keeps it within an adhesive, which guarantees complete hydration, thus creation of final great strength parametres.

The processes of cement binding and polymer net formation happen simultaneously which allows mutual intertexture of the bonds structures. So developed net forms a microcomposite which is characterised by high bonding to substrate and cladding, flexibility and improved deformability. Interspersed strong cement bonds and elastic polymer bonds form brilliant synergic system ensuring material strength and durability, even in case of intensive operational use.

It allows to fix any cladding on substrates subject to deformation under mechanical or thermal loads, i.e. at areas such as terraces, façades, surfaces with heating systems or timber ceilings. **ATLAS POLYMER TECHNOLOGY** improves mortar strength against flexing, abrasion and deformation. Additionally, it reduces adhesive absorbability, thus increases resistance to freeze and risk of salt efflorescence.

Owing to special properties, adhesives supported by polymers do not require porous surfaces to get adhered – synthetic binder forms bond with almost any material and substrate type.

ATLAS POLYMER TECHNOLOGY also improves other properties of adhesives, e.g. open time, fixed tile adjustability and pot life – time of use of stirred mortar.

Main advantages of **ATLAS POLYMER TECHNOLOGY** are:
- durable and strong bond between cladding and difficult or non-absorbable substrates,
- possibility of use on substrates subject to great deformations and vibrations,
- high resistance to extreme operational loads – mechanical and thermal,
- excellent bonding to cladding of any type,
- safe use with tiles of any size, including those of formats above 3 m²
- outstanding workability, rheology and extended pot life.

classification of adhesives
DIVISION

Requirements on adhesive mortars are listed in the standard *PN-EN 12004+A1:2012 Adhesives for tiles – Requirements, evaluation of conformity, classification and designation.*

Each adhesive for tiles consists of three main ingredients:
- binder, e.g. cement, organic binders or synthetic resins
- fillers, i.e. mix of aggregates of various size
- modifiers in the form of redispersible resins, methylcellulose, etc.

Standard *PN-EN 12004+A1:2012* classifies adhesives on basis of a binder and lists three main groups:
- cement adhesives (designated with letter C) – mostly distributed in the form of dry mixes (rarely as two-component products), where cement is the binder. Product is ready to use after mixing with water in ratio listed by a manufacturer,
- dispersive adhesives (designated with letter D) – distributed in the form of ready made paste. Based on organic binders – water-soluble polymer dispersions.
- adhesives based on reactive resins (designated with letter R) – two-component or multi-component products. All components have to be mixed together to form a final material.

Each type of adhesive listed above can include various classes of mortars presenting different performances:
- basic properties, which are obligatory for all adhesives, e.g. initial bonding, open time,
- elective properties describing workability, e.g. slip
- supplementary properties concerning adhesive operational use, e.g. high bonding after freeze-thaw cycles.

These classes are designated with the following abbreviations:

C1 – standard setting adhesives. Products for simple and typical tiling, for small and medium size tiles fixed on stable standard substrates.

C2 – adhesives of enhanced parametres (they meet requirements on supplementary performance). Oppositely to C1 class adhesives, these ones can be used with greater formats and on more difficult substrates, also in wet zones. C2 adhesives are commonly called flexible.

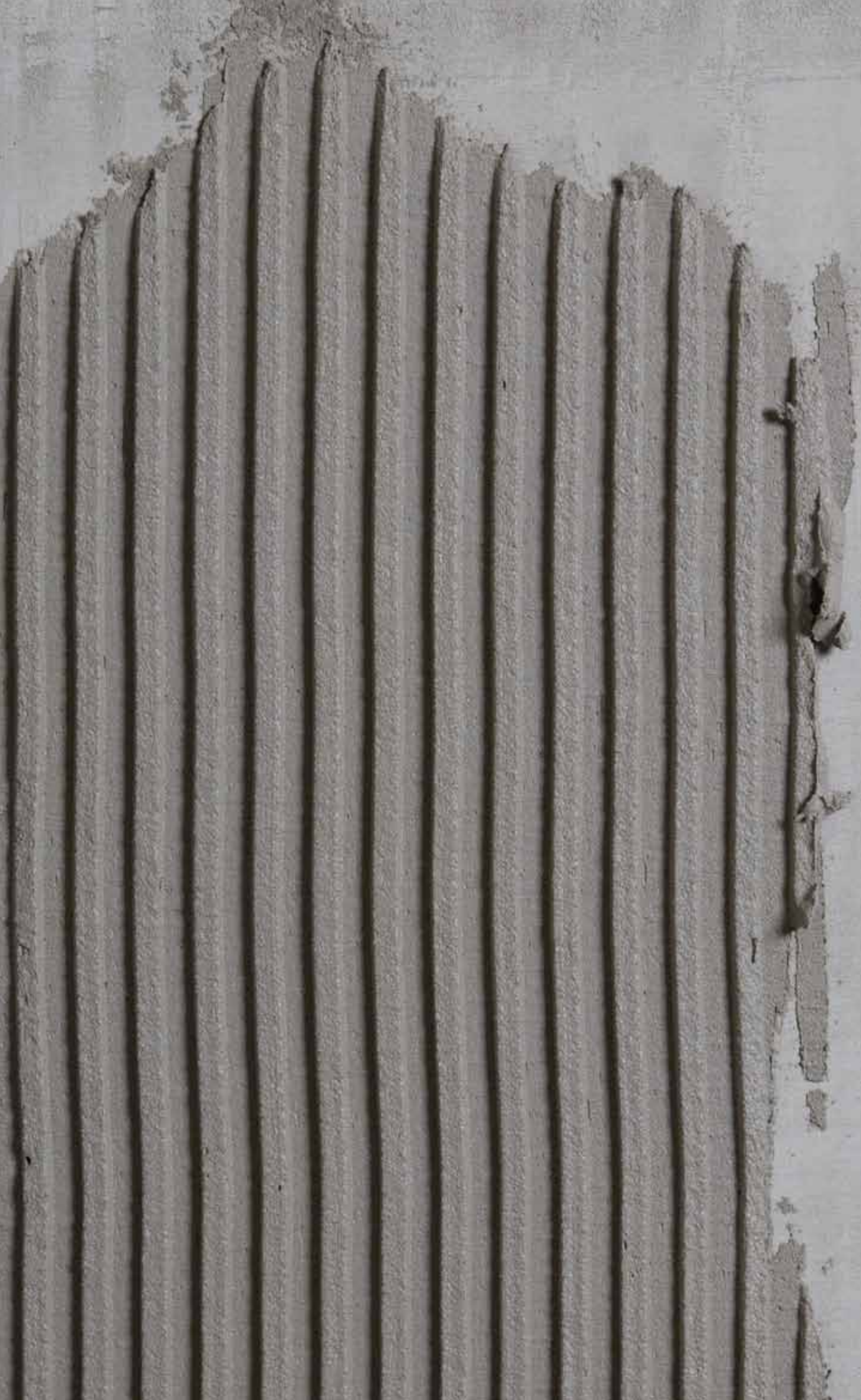
F – rapid set adhesives. These are mortars of very short time of setting. They are recommended for quick refurbishment. Setting, faster than performed by standard adhesives, allows grouting and operational use just a few hours since commencement of tiling.

T – adhesives of reduced slip. This parameter describes possibility of tiling on walls from top to bottom with no additional support. It is particularly useful at aesthetic wall finishing when whole tiles must be fixed at particular height, and cut to size elements can be placed at less visible points.

E – adhesives of extended open time. This parameter allows an user to apply single coat of an adhesive upon greater area and to fix tiles even up to 30 minutes since then.

S1 – deformable adhesives. They transfer tensions occurring in the system of layers substrate-adhesive-tile as a result of action of one or more layers. These adhesives are recommended for surfaces subject to deformation, e.g. in case of change of temperature of terraces, screeds with heating systems or on surfaces commonly accepted as difficult, e.g. OSB boards.

S2 – adhesives of high deformability characterised by greater resistance to transverse deformations. They eliminate tensions resulting from change of temperature or surface bending strength, e.g. timber substrates or those subject to vibrations.



classification of adhesives
REQUIREMENTS

Contractors also divide adhesives into thin-, medium- and thick-coat mortars. This division is more operational one and not listed in a standard.

Thin-coat adhesives – adhesives of coat thickness not greater than 5 mm. Such thickness allows to fix tiles only on even substrates, so usually initial surface leveling gets necessary.

Medium-coat adhesives – allowable thickness within the range of 5-10 mm, which allows to level slight substrate irregularities.

Thick-coat adhesives – application in coats even 20 mm thick. Mostly used on horizontal surfaces. They are appreciated for possibility of free leveling of large tiles with no initial surface leveling, e.g. with a self-leveling compound, which significantly shortens time of application and cuts costs.

Additional descriptions of adhesive properties:

Self-spreading adhesive – product of semi-liquid consistency which allows to fill whole space underneath a tile without manual effort. Ensures complete backup even in case of large size tiles, thus reduces the risk of cracking resulting from impacts.

White adhesive – unlike standard grey adhesives, it is manufactured on basis of white cement. It offers same performance as grey adhesive of similar class, but its use is advisable in case of risk of permanent and unaesthetic discolourations of cladding surfaces. Used with tiles of great absorptiveness, e.g. natural stone or gres, especially of bright shades.

Gel adhesive – adhesive containing gelling additives, e.g. siliceous gel. It holds unique possibility of water accumulation, which provides full bonding to substrates of various absorptiveness, even at high temperature. Wide range of mixing water ratio allows to form consistency adjusted to user's preferences with no risk of so called overwatering reducing technical performance of a mortar.

REQUIREMENTS ON CEMENT MORTARS

BASIC PROPERTIES	**REQUIREMENTS**
1b) STANDARD SETTING ADHESIVES	
initial bonding	≥ 0.5 N/mm²
bonding after immersion in water	≥ 0.5 N/mm²
bonding after heat exposure	≥ 0.5 N/mm²
bonding after freeze-thaw cycles	≥ 0.5 N/mm²
open time: bonding	≥ 0.5 N/mm² after time not shorter than 20 min
1b) RAPID SET ADHESIVES	
initial bonding	≥ 0.5 N/mm² after time not longer than 6 h
open time: bonding	≥ 0.5 N/mm² after time not shorter than 10 min
all other requirements as in 1a	

ELECTIVE PROPERTIES	**REQUIREMENTS**
1c) SPECIAL PERFORMANCE	
slip	≤ 0.5 mm
extended open time: bonding	≥ 0.5 N/mm² after time not shorter than 30 min
deformable adhesives: transverse deformation	≥ 2.5 mm and < 5 mm
adhesives of high deformability: transverse deformation	≥ 5 mm
1d) ADDITIONAL PERFORMANCE	
high initial bonding	≥ 1.0 N/mm²
high bonding after immersion in water	≥ 1.0 N/mm²
high bonding after heat exposure	≥ 1.0 N/mm²
high bonding after freeze-thaw cycles	≥ 1.0 N/mm²

SOURCE: PN-EN 12004+A1:2012 Adhesives for tiles – Requirements, evaluation of conformity, classification and designation.

examples of use
ADHESIVES FOR TILES

GEL TECHNOLOGY

ADHESIVE NAME	ATLAS ULTRA GEOFLEX	ATLAS GEOFLEX	ATLAS GEOFLEX WHITE	ATLAS PLUS	ATLAS PLUS WHITE	ATLAS PLUS EXPRESS	ATLAS PLUS MEGA	ATLAS PLUS MEGA WHITE
FORMATS OF FIXED ELEMENTS								
Small and medium size tiles (≤ 0.1 m²) and longer side length ≤ 40 cm	+	+	+	+	+	+	+	+
Large size tiles (≤ 0.25 m²)	+	+	+	+	+	+	+	+
Extra large size tiles (> 0.25 m²)	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	use ATLAS PLUS	+	+
Slim type tiles	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	use ATLAS PLUS	+	+
SUBSTRATE TYPE								
Concrete	+	+	+	+	+	+	+	+
Terrazzo	+	+	+	+	+	+	+	+
Mineral, dispersive and reactive sealing coats	+	+	+	+	+	+	+	+
Magnesium screeds	+	+	+	+	+	+	+	+
Mastic asphalt screeds	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Dry screeds made of gypsum boards	+	+	+	+	+	+	+	+
Screeds (cement or anhydrite) with water or electric heating system embedded	+	+	+	+	+	+	+	+
Screeds with heating matt embedded in adhesive	+	+	+	+	+	+	+	+
Cement and anhydrite screeds	+	+	+	+	+	+	+	+
Plasters with heating system	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Plasterboards, gypsum-fibre, cement-fibre boards	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Gypsum plasters in dry zones	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Cement plasters	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Existing ceramic or stone cladding (tile on tile)	+	indoors only	indoors only	+	+	+	+	+
Concrete resin varnish bonded to substrate	+	+	+	+	+	+	+	+
Dispersion, oil paint coats bonded to substrate	+	+	+	+	+	+	+	+
Timber floors (thickness > 25 mm)	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
OSB/3, OSB/4 and chipboards on floors (thickness > 25 mm)	+	+	+	+	+	+	+	+
OSB/3, OSB/4 and chipboards on walls (thickness > 18 mm)	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Insulating and acoustic panels	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Metal and steel surfaces	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Plastic surfaces	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Walls of cellular concrete	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Walls of silicate bricks or hollow blocks	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Walls of ceramic bricks or hollow blocks	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Walls of gypsum blocks	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE

ADHESIVE NAME	ATLAS ADHESIVE FOR KITCHEN AND BATHROOM	ATLAS ELASTYK	OK! ELASTIFIED ADHESIVE	ATLAS ELASTIFIED ADHESIVE MORTAR	ATLAS MIG 2	ATLAS ADHESIVE FOR TILES	ATLAS ADHESIVE FOR GRES AND TERRACOTTA	ATLAS ATUT
FORMATS OF FIXED ELEMENTS								
Small and medium size tiles (≤ 0.1 m²) and longer side length ≤ 40 cm	+	+	+	+	+	+	+	+
Large size tiles (≤ 0.25 m²)	+	+	+	use OK!	use OK!	use OK!	use OK!	use OK!
Extra large size tiles (> 0.25 m²)	use ATLAS PLUS	use ATLAS PLUS						
Slim type tiles	use ATLAS PLUS	use ATLAS PLUS						
SUBSTRATE TYPE								
Concrete	+	+	+	+	+	+	+	+
Terrazzo	use ATLAS PLUS	use ATLAS PLUS						
Mineral, dispersive and reactive sealing coats	+	+						
Magnesium screeds	use ATLAS PLUS	use ATLAS PLUS						
Mastic asphalt screeds	use ATLAS PLUS	use ATLAS PLUS						
Dry screeds made of gypsum boards	use ATLAS PLUS	use ATLAS PLUS						
Screeds (cement or anhydrite) with water or electric heating system embedded	+	+				+	+	
Screeds with heating matt embedded in adhesive	+	+						
Cement and anhydrite screeds	+	+	+	+	+	+	+	+
Plasters with heating system	+	+						
Plasterboards, gypsum-fibre, cement-fibre boards	+	+						
Gypsum plasters in dry zones	+	+	+	+	+	+	+	+
Cement plasters	+	+	+	+	+	+	+	+
Existing ceramic or stone cladding (tile on tile)	use ATLAS PLUS	use ATLAS PLUS						
Concrete resin varnish bonded to substrate	use ATLAS PLUS	use ATLAS PLUS						
Dispersion, oil paint coats bonded to substrate	use ATLAS PLUS	use ATLAS PLUS						
Timber floors (thickness > 25 mm)	use ATLAS PLUS	use ATLAS PLUS						
OSB/3, OSB/4 and chipboards on floors (thickness > 25 mm)	use ATLAS PLUS	use ATLAS PLUS						
OSB/3, OSB/4 and chipboards on walls (thickness > 18 mm)	use ATLAS PLUS	use ATLAS PLUS						
Insulating and acoustic panels	use ATLAS PLUS	use ATLAS PLUS						
Metal and steel surfaces	use ATLAS PLUS	use ATLAS PLUS						
Plastic surfaces	use ATLAS PLUS	use ATLAS PLUS						
Walls of cellular concrete	+	+	+	+	+	+	+	+
Walls of silicate bricks or hollow blocks	+	+	+	+	+	+	+	+
Walls of ceramic bricks or hollow blocks	+	+	+	+	+	+	+	+
Walls of gypsum blocks	+	+	+	+	+	+	+	+

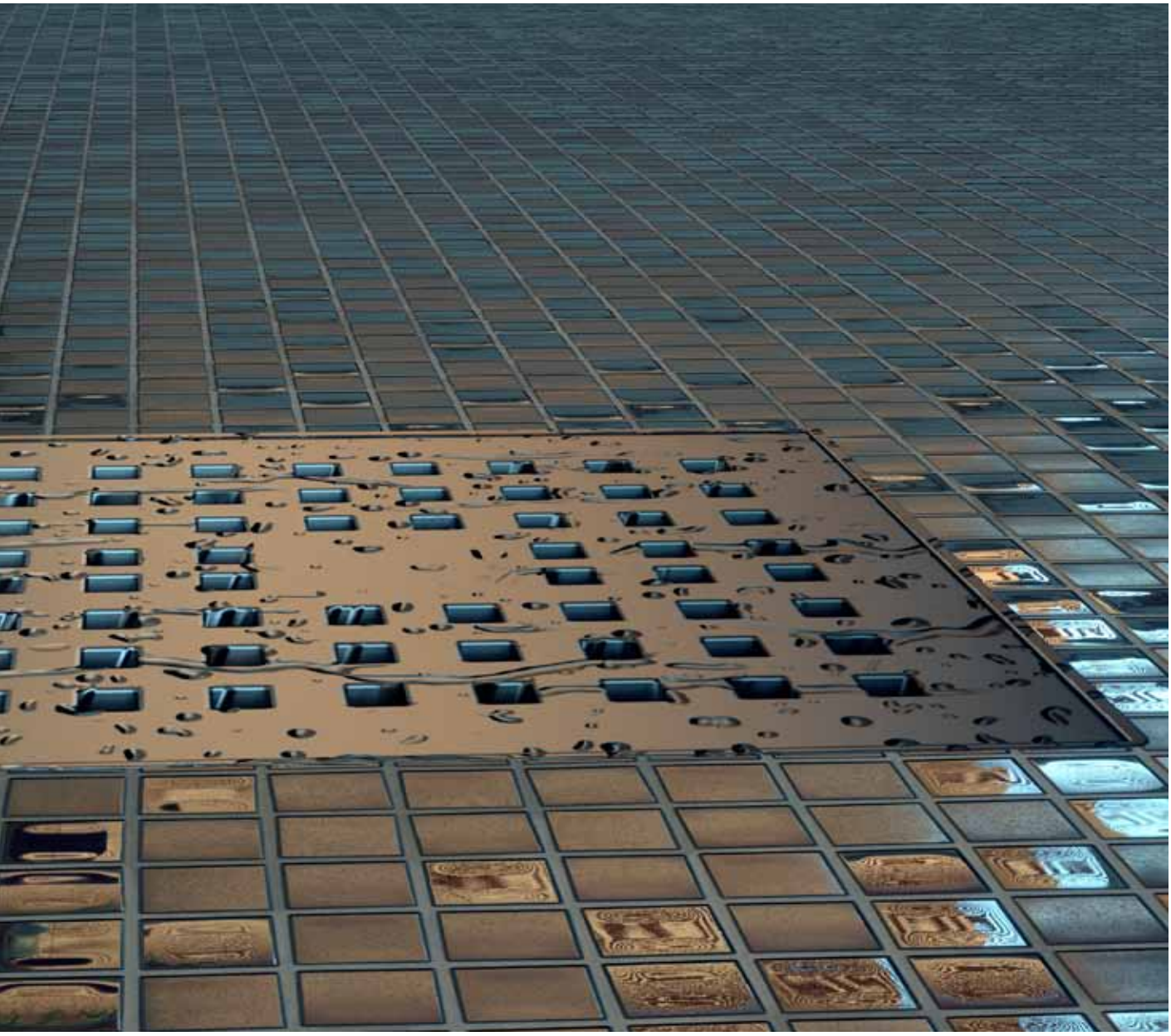
ADHESIVE NAME	ATLAS ULTRA GEOFLEX	ATLAS GEOFLEX	ATLAS GEOFLEX WHITE	ATLAS PLUS	ATLAS PLUS WHITE	ATLAS PLUS EXPRESS	ATLAS PLUS MEGA	ATLAS PLUS MEGA WHITE
PLACE OF APPLICATION								
Floors	+	+	+	+	+	+	+	+
Walls	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS
Indoors	+	+	+	+	+	+	+	+
Outdoors	+	+	+	+	+	+	+	+
Kitchen, bathroom, washing room, garage (single-family housing)	+	+	+	+	+	+	+	+
Terraces	+	+	+	+	+	+	+	+
Balconies, loggias	+	+	+	+	+	+	+	+
External slab stairs	+	+	+	+	+	+	+	+
External beam stairs, e.g. bracket stairs	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	use ATLAS PLUS	use ATLAS PLUS	use ATLAS PLUS WHITE
Communication routes (except of external stairs)	+	+	+	+	+	+	+	+
Façades (also with thermal insulation systems)	+	+	use ATLAS PLUS WHITE	+	+	use ATLAS PLUS	use ATLAS PLUS	use ATLAS PLUS WHITE
Plinth cladding	+	+	+	+	+	+	use ATLAS PLUS	use ATLAS PLUS WHITE
Technological tanks, pools, fountains, jacuzzi, balneotechnology (with no aggressive chemicals in use)	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Drinking water reservoirs	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	use ATLAS PLUS	use ATLAS PLUS	use ATLAS PLUS WHITE
Saunas	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Showers, washes, rooms washed with plenty of water	+	+	+	+	+	+	+	+
OBJECT TYPE								
Residential housing	+	+	+	+	+	+	+	+
Public access buildings – rooms of small operational loads	+	+	+	+	+	+	+	+
Public access, educational, office, healthcare buildings	+	+	+	+	+	+	+	+
Commercial and service buildings	+	+	+	+	+	+	+	+
Sacral buildings	+	+	+	+	+	+	+	+
Industrial buildings and multi-storey garages	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Industrial warehouses	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+
Infrastructure	+	use ATLAS ULTRA GEOFLEX	use ATLAS ULTRA GEOFLEX	+	+	+	+	+

ADHESIVE NAME	ATLAS ADHESIVE FOR KITCHEN AND BATH-ROOM	ATLAS ELASTYK	OK! ELASTIFIED ADHESIVE	ATLAS ELASTIFIED ADHESIVE MORTAR	ATLAS MIG 2	ATLAS ADHESIVE FOR TILES	ATLAS ADHESIVE FOR GRES AND TERRACOTTA	ATLAS ATUT
PLACE OF APPLICATION								
Floors	+	+	+	+	+	+	+	+
Walls	+	+	+	+	+	+	+	+
Indoors	+	+	+	+	+	+	+	+
Outdoors	+	+	+	+	+	+	+	+
Kitchen, bathroom, washing room, garage (single-family housing)	+	+	+	+	+	+	+	+
Terraces	use ATLAS PLUS	use ATLAS PLUS						
Balconies, loggias	+	+						
External slab stairs	+	+	+	+	+	+	+	+
External beam stairs, e.g. bracket stairs	use ATLAS PLUS	use ATLAS PLUS						
Communication routes (except of external stairs)	+	+	+	use OK!	use OK!	use OK!	use OK!	use OK!
Façades (also with thermal insulation systems)	use ATLAS PLUS	use ATLAS PLUS						
Plinth cladding	+	+	+	+	+	+	+	+
Technological tanks, pools, fountains, jacuzzi, balneotechnology (with no aggressive chemicals in use)	use ATLAS PLUS	use ATLAS PLUS						
Drinking water reservoirs	use ATLAS PLUS	use ATLAS PLUS						
Saunas	use ATLAS PLUS	use ATLAS PLUS						
Showers, washes, rooms washed with plenty of water	use ATLAS PLUS	use ATLAS PLUS						
OBJECT TYPE								
Residential housing	+	+	+	+	+	+	+	+
Public access buildings – rooms of small operational loads	+	+	+	+	+	+	+	+
Public access, educational, office, healthcare buildings	+	+						
Commercial and service buildings	+	+						
Sacral buildings	+	+						
Industrial buildings and multi-storey garages	use ATLAS PLUS	use ATLAS PLUS						
Industrial warehouses	use ATLAS PLUS	use ATLAS PLUS						
Infrastructure	use ATLAS PLUS	use ATLAS PLUS						


ATLAS

water-proofing

classification of waterproofing
DIVISION



Waterproofing is a group of products designed for protection of elements of buildings against destructive water and moisture action. We can divide three types of waterproofing:
- **light** – protects against action of water freely draining down the surface of a protected element. A bathroom is an example of a room with light weight waterproofing in use. Water freely drains from walls and does not stand on the surface,
- **medium** – protects against action of water standing on the surface (forming puddles), e.g. surfaces of terraces and balconies where, despite a slope, puddles of water from melting snow stand for long time,
- **heavy** – protects against water under pressure. Here we can list swimming pools, water tanks and underground parts of buildings.

Waterproofing is applied in wet rooms (e.g. bathrooms), on balconies, terraces, external stairs, plinths, in swimming pools and other areas exposed to permanent or temporary water action.

There are four classes of dampness load:
- **class I** – short term loading with splashed water (e.g. showers),
- **class II** – permanent loading with running water, without damming (e.g. shower cabins without trays),
- **class III** – outdoor elements exposed to atmospheric actions (e.g. balconies, terraces, plinths),
- **class IV** – permanent loading with running water with aggressive chemicals and detergents, without damming.

In case of installation of ceramic tiles, all waterproofing materials are applied directly beneath tiles fixed with cement adhesives, thus any type of waterproofing applied beneath tiles is commonly called an “under-tile” one.

Products for application of under-tile waterproofing are marketed in two forms:
- **one-component waterproofing** – ready made masses manufactured on the basis of polymer emulsions. They form light, sometimes medium weight interior waterproofing. They are very convenient in use and offer excellent substrate protection against moisture occurring indoors – plasters and screeds in wet rooms (bathrooms, baths, showers, kitchens, washrooms), particularly around shower cabins, washbasins, bathtubs, sinks, etc. Some types can be used on bathroom floors and outdoors, e.g. ATLAS WODER E, which can also be applied on balconies. Here, it is advisable to keep a slab slope of approx. 2% and effective drainage of water (e.g. in case of small balconies in multi-family housing),
- **two-component waterproofing** offered in the form of modified cement-based dry mix (component A) and water dispersion of plastics (component B).

Two-component products can form waterproofing of any type, all depends on the thickness of the material layer. They can be used indoors and outdoors. An example of two-component waterproofing in ATLAS portfolio is **ATLAS WODER DUO.**

It can be used among others:
- on plasters and screeds in wet rooms, e.g. bathrooms, baths, showers, kitchens, washrooms, particularly at wet zones of these rooms – around shower cabins (also for walk-in systems finished with tiles), washbasins, bathtubs, sinks, etc.
- walls of cellars and foundations made of bricks, concrete blocks, retaining walls and other building elements exposed to permanent contact with ground water,
- reservoirs with sanitary water, tanks with fire water, sewage treatment plants, basins of swimming pools, terraces, balconies, storage reservoirs, dams, weirs, locks.

classification of waterproofing
SUPPLEMENTARY ACCESSORIES

PHOTO ATLAS

Each under-tile waterproofing is supported by **supplementary accessories**. These are sealing tapes, corners, flanges and collars made of watertight elastic material. They are embedded in freshly applied mass at points such as: joints between wall and floor or wall and wall, passes of waterpipes through walls, linear drains.

Elongating tensions occurring at these points, caused by action of two different structural elements (wall-floor), can destroy the waterproofing coat. Tapes, flanges or collars form a kind of “reinforcing” of waterproofing and effectively transfer longitudinal and transversal deformations caused by elongating stress.

ATLAS SEALING TAPES, CORNERS, FLANGES are made of polyester fabric coated with an elastic material. They are characterised by transpicuous fabric on both outer edges. These accessories are recommended for interior use (e.g. in bathrooms).

ATLAS HYDROBAND 3G are sealing elements made of laminated interfacing with addition of elastomer. They are highly resistant to alkali and UV radiation, thus recommended for outdoor use, e.g. on balconies and terraces.

examples of use
WATERPROOFING

PRODUCT	 ATLAS WODER DUO	 ATLAS WODER DUO EXPRESS	 ATLAS WODER E	 ATLAS WODER W	 ATLAS WODER S
RANGE OF USE					
Indoors	+	+	+	+	+
Outdoors	+	+	+		+
Place of application					
Foundations, cellar walls	+				+
Floor/wall heating	+		+	+	+
Water tanks, pools	+				+
Terraces, balconies	+	+	+*		+
Substrate type					
Cement and concrete screeds, cement-lime plasters, concrete, cellular concrete, silicates	+	+	+	+	+
Anhydrite screeds, gypsum plasters			+	+	
Plasterboards, OSB-boards	+		+	+	
Galvanized metal sheet	+		+		
Type of waterproofing					
Light	+		+	+	+
Medium	+	+	+		+
Heavy	+				+

*ATLAS WODER E for use on balconies only

priming agents

classification of priming agents

PHOTO ATLAS

Priming consists in application of an agent in order to provide a substrate with particular designed properties.

Priming aims to:
- reduce substrate absorptiveness
- unify substrate absorptiveness on its whole surface, regardless material type, technique of troweling and mortar coat thickness
- strengthen the surface of poor substrates
- improve bonding of subsequent coats
- prevent formation of cavities on the surface of self-levelling screeds
- form a chemical barrier between substrate and freshly applied coat

The action of priming is executed with the use of priming preparations, called also emulsions or priming agents.

Priming is performed on floors and walls as preparation for:
- application of new or repairs of existing screeds
- application of plasters and repair mortars
- application of waterproofing
- installation of ceramic and stone tiles
- application of paints and finishing coats

Priming is performed, among others, on the following substrates:
- concrete (monolithic and prefabricated)
- rough walls made of small size elements
- cement, cement-lime and gypsum plasters
- plasterboards (also joints between boards and edges of boards cut to size at construction sites)
- screeds (based on calcium sulphate, cement)
- difficult substrates (OSB boards and old ceramic tiles)

The basic criteria of priming agent selection should take into account:
- substrate absorptiveness (greatly absorptive, absorptive, non-absorptive, poorly absorptive)
- substrate structure (poor, stable, smooth – of tight structure)
- substrate material (concrete, cement or gypsum)

TYPES OF PRIMING AGENTS

Depending on the mode of action priming agents can be divided into:
- **penetrating** – permeating into structure and improving properties of a substrate
- **surface** – changing the substrate properties by forming a coat on its surface

Penetrating primers are mostly manufactured on basis of low molecular weight water-soluble acrylic dispersions. Depending on the size of polymer molecules we can divide general use agents and deeply penetrating ones. General use primers are recommended for poor and greatly absorptive substrates whereas deeply penetrating ones for poorly absorptive and strong substrates.

Primers of surface action, called also contact or scratch coats, are mostly manufactured on basis of acrylic resins with addition of fine quartz aggregate. They form a surface coat of very high bonding. Presence of aggregate makes the surface of dried agent rough. Thus, the area of effective bond between substrate and freshly applied coating is enlarged. Priming agents of surface action are recommended for smooth substrates of tight structure (e.g. monolithic concrete) and for difficult substrates (e.g. OSB boards or terrazzo).

examples of use
PRIMING AGENTS

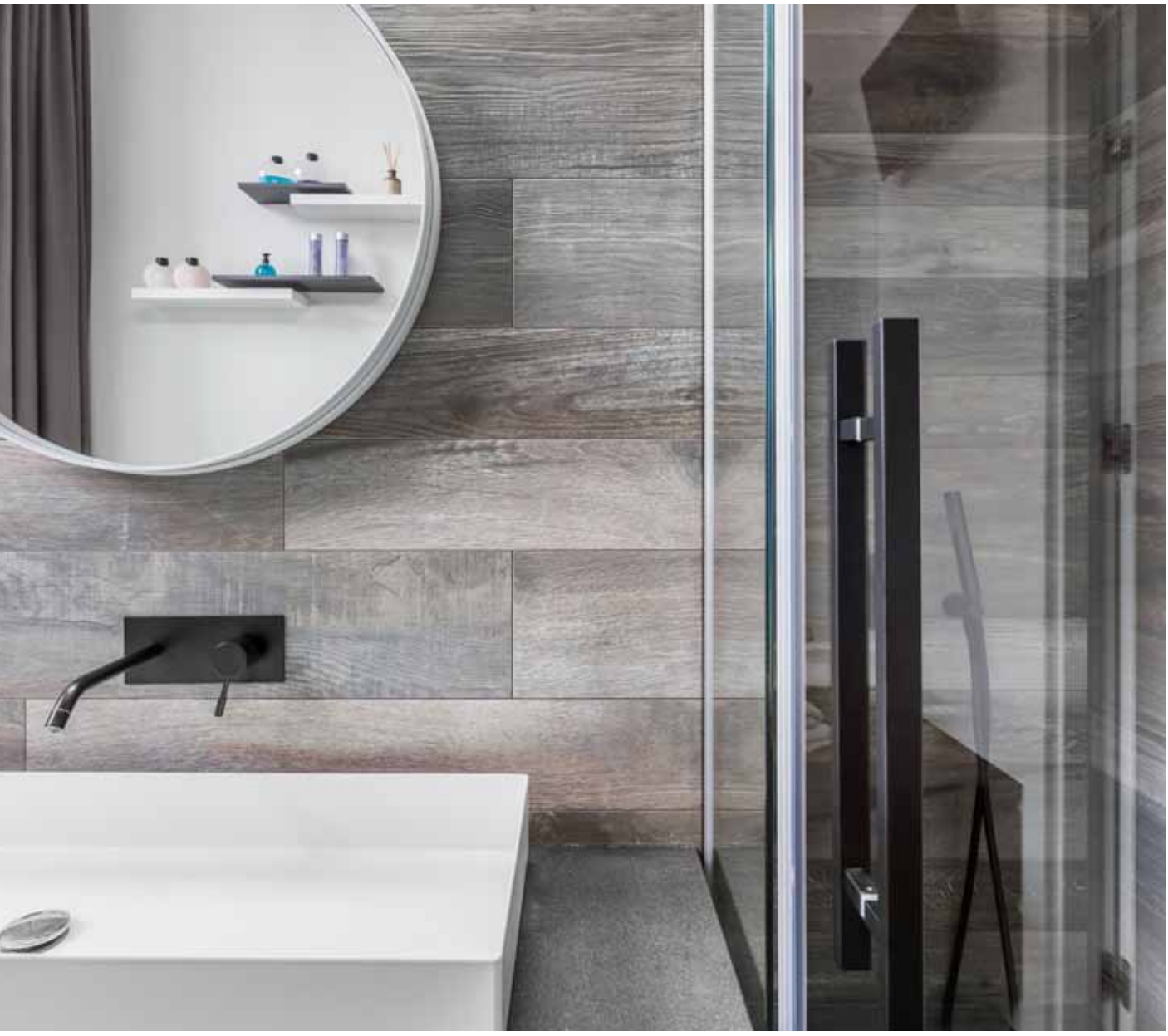
PRODUCT	ATLAS UNI-GRUNT	ATLAS UNI-GRUNT PLUS	ATLAS OPTIGRUNT
TYPE OF SUBSTRATE – STANDARD			
Cement, concrete floors and screeds	+	+	
Anhydrite screeds	ATLAS UNI-GRUNT PLUS recommended	+	
Cement, cement-lime plasters and finishing coats	+	+	+
Gypsum plasters and finishing coats	ATLAS UNI-GRUNT PLUS recommended	+	+
Walls of cellular concrete	+	+	+
Walls of silicate bricks or blocks	+	+	
Walls of ceramic bricks or hollow blocks	+	+	
Walls of gypsum blocks	ATLAS UNI-GRUNT PLUS recommended	+	
TYPE OF SUBSTRATE – DIFFICULT			
Cement screeds and floors with heating system	+	+	
Anhydrite screeds with heating system	ATLAS UNI-GRUNT PLUS recommended	+	
Asphalt screeds	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	
Magnesium screeds	+	+	
Monolithic concrete	use ATLAS UNI-GRUNT PLUS	+	use ATLAS UNI-GRUNT PLUS
Ferroconcrete	use ATLAS UNI-GRUNT PLUS	+	
Existing ceramic and stone cladding	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	
Terrazzo	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	
Osb boards	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST
Plasterboards	+	+	use ATLAS UNI-GRUNT
Stable linoleum, PVC	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	
Concrete varnishes	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	
Coatings made of interior acrylic and latex paints	ATLAS UNI-GRUNT PLUS recommended	+	use ATLAS UNI-GRUNT
Coatings made of oil paints	use ATLAS GRUNTO-PLAST	use ATLAS GRUNTO-PLAST	
TYPE OF FINISHING COAT*			
Cladding tiles fixed with cement or gypsum adhesive	+	+	
Mineral waterproofing (slurry)	+	+	
Cement floors and screeds, anhydrite screeds	+	+	
Cement, cement-lime, gypsum plasters	+	+	
Cement, gypsum finishing coats	+	+	
Coatings made of interior acrylic and latex paints	+	+	+
Wallpapers	+	+	+

PRODUCT	ATLAS ULTRAGRUNT	ATLAS GRUNTO-PLAST
TYPE OF SUBSTRATE – STANDARD		
Cement, concrete floors and screeds	+	+
Anhydrite screeds		+
Cement, cement-lime plasters and finishing coats	+	+
Gypsum plasters and finishing coats	ATLAS UNI-GRUNT PLUS recommended	+
Walls of cellular concrete	+	+
Walls of silicate bricks or blocks		+
Walls of ceramic bricks or hollow blocks		+
Walls of gypsum blocks		+
TYPE OF SUBSTRATE – DIFFICULT		
Cement screeds and floors with heating system	+	+
Anhydrite screeds with heating system		+
Asphalt screeds		+
Magnesium screeds		+
Monolithic concrete	ATLAS UNI-GRUNT PLUS recommended	+
Ferroconcrete		+
Existing ceramic and stone cladding		+
Terrazzo		+
Osb boards		+
Plasterboards	+	+
Stable linoleum, pvc		+
Concrete varnishes		+
Coatings made of interior acrylic and latex paints	ATLAS UNI-GRUNT PLUS recommended	+
Coatings made of oil paints		+
TYPE OF FINISHING COAT*		
Cladding tiles fixed with cement or gypsum adhesive		+
Mineral waterproofing (slurry)		+
Cement floors and screeds, anhydrite screeds		+
Cement, cement-lime, gypsum plasters		+
Cement, gypsum finishing coats	+	+
Coatings made of interior acrylic and latex paints	+	ATLAS UNI-GRUNT PLUS recommended
Wallpapers	+	ATLAS UNI-GRUNT PLUS recommended

*check guidelines on priming listed by a manufacturer of a finishing coat material

sets
ATLAS

set bathroom



Designs of bathrooms distinguish themselves with richness of arrangement, from extra large ceramic tiles to glass mosaics. Elements, which impress at the phase of visualization, often make installation problems. Variety of substrates, types of materials and formats of cladding call for use of a product guaranteeing durability and safety, regardless an investor's idea. An excellent solution brings **ATLAS PLUS** – deformable adhesive of C2TE S1 class, designed for fixing tiles of any type – small and large size, ceramic (glazed, terracotta, clinker, gres, mosaic), cement and stone ones. It can be used on floor and wall heating systems. Additionally, owing to the combination of double fibres and polymer technologies, it offers brilliant performance during application at low temperatures. Optimized recipe ensures safe bonding even in unheated rooms.

Bathrooms are particularly exposed to high humidity and direct water action. Lack of appropriate waterproofing can lead to substrate destruction and development of hard to fight fungi and mould. A product which effectively protects bathrooms is a highly elastic sealing mass ATLAS WODER E. It is recommended for waterproofing surfaces underneath tiles, on floors and walls, around passages of water and sewage installations.

This set is supplemented with **ATLAS ARTIS GROUT**. It is characterised by rapid setting which results in brilliant visual effect and ideal colour. Additionally, its structure is exclusively smooth which helps to keep the grout clean.

RAPID

RESISTANCE TO GROWTH OF FUNGI AND MOULD

ON DEMANDING SUBSTRATES

- **ATLAS WODER E** – elastic sealing mass
- **ATLAS PLUS** – highly flexible deformable adhesive
- **ATLAS ARTIS GROUT**

set kitchen

VISUALISATION ATLAS, ATLAS TIGHT GROUT, COLOUR JASMINE 118

Kitchen is a special room and its arrangement should take into account both functionality and ergonomy. People very often treat it as a center of home where life and daily hustle concentrate.

In order to form visual space, kitchen is often connected to a dining or living room, which makes it a place of very intensive use. Installation of the most trendy materials and formats of cladding, both on walls and floors – often of large space – calls for an economical and professional solution guaranteeing reliability.

SET KITCHEN includes **ATLAS ELASTIFIED ADHESIVE MORTAR** of C1TE class which meets basic needs of enthusiasts of classic 30 x 30 cm tiles. Owing to reduced slip it can be applied from top to bottom, it can also be applied on floors. Extended open time allows optimum use of the time of application. This adhesive is also recommended for mineral substrates leveling with coats up to 10 mm thick.

The set is supplemented with **ATLAS TIGHT GROUT**, available in 40 colours, including three shades of whiteness, which can easily match any room climate. Its exceptional smoothness and hydrophobisation prevent penetration of dirt which ensures easy maintenance within whole period of operation. Additionally, the grout is protected against mould action and efflorescence.

- **ATLAS ELASTIFIED ADHESIVE MORTAR**
- **ATLAS TIGHT GROUT**

EASY TO KEEP CLEAN

40 TRENDY COLOURS

ON WALLS AND FLOORS

set living room

TUBĄDZIN PROJECT, MONOLITH BRAND, TORANO COLLECTION, ATLAS ARTIS GROUT, COLOUR DARK GREY 036

Designers often recommend ceramic cladding as an excellent match for minimalistic loft interiors. Such arrangements are mostly based on large bright tiles, natural stone, marble or sandstone.

This type of cladding – due to susceptibility to discolouration, significant absorptiveness and size – is a challenge for a tiler. It must be fixed with specialist adhesives based on white cement which do not change the cladding shade. Furthermore, the mortar must be designed for use with large size, highly flexible tiles of enhanced parametres.

SET LIVING ROOM includes white gel adhesive **ATLAS GEOFLEX WHITE** of C2TE class, which is based on siliceous gel technology. It offers unique ability of water binding, therefore guarantees full bonding to difficult substrates of various grade of absorptiveness and excellent mortar spreading even with very large tiles.

A perfect complement of this set, emphasizing beauty of bright natural stone, is **ATLAS ARTIS GROUT** available in 40 colours, including three shades of whiteness. It offers a brilliant possibility of arrangement and shade selection. It is a professional joint resistant to great loads and deformations. Content of ions of silver ensures antibacterial properties and hydrophobic additives protect the grout against penetration of dirt and growth of mould.

- **ATLAS GEOFLEX WHITE** – highly flexible gel adhesive
- **ATLAS ARTIS GROUT**

USE WITH ANY TYPES OF TILES, INCL. STONE

COMFORT AND SAFETY

FREE ARRANGEMENT OF COLOURS

set balconies and terraces

TUBĄDZIN PROJECT, INDUSTRIO COLLECTION, ATLAS ARTIS GROUT, COLOUR STEEL 203

Terraces and balconies belong to the most difficult sites for tiling. Execution of details and selection of materials decide about durability of the system subject to extreme atmospheric conditions. Great temperature amplitudes – not only during a year, but also a day – precipitation, exposure to strong sunlight, require the selected products – waterproofing, adhesive and grout – to guarantee safety and reliability.

SET BALCONIES AND TERRACES includes two-component waterproofing of heavy type **ATLAS WODER DUO**. Owing to great elasticity and reinforcement with fibres, it bonds well to a substrate, seals the whole system and prevents penetration of water into screed and thermal insulation. Application of waterproofing is crucial for long time durability of these elements, their resistance to cracking and destruction.

For cladding fixing one should choose gel adhesive **ATLAS ULTRA GEOFLEX** of C2TE S1 class. Its main advantage consists in possibility of application of large tiles on difficult substrates subject to deformation under temperature. Furthermore, owing to the siliceous gel technology, it allows application at temperature up to even +35°C, i.e. in summertime on surfaces of balconies and terraces exposed to sunlight. Gel absorbs water into its structure, prevents its rapid evaporation at high ambient temperature or on hot substrates. The ability of accumulation of water ensures complete process of hydration, regardless the surrounding conditions.

The set is completed with rapid set **ATLAS ARTIS GROUT**. Owing to its elasticity, it interacts with cladding, does not crack, provides tightness, is easy to apply, guarantees durability and long time use. It is available in 40 colours allowing free arrangement of designs of terraces and balconies.

FOR GREAT LOADS

EASY AND QUICK APPLICATION

RESISTANCE TO SOILING

- **ATLAS WODER DUO** – two-component waterproofing
- **ATLAS ULTRA GEOFLEX** – highly flexible deformable gel adhesive
- **ATLAS ARTIS GROUT**

set floor heating
WET ZONES

Floor heating systems in wet zones, mostly in bathrooms, is a popular solution in newly erected buildings. Humidity, but also tension resulting from substrate action, require products guaranteeing appropriate system reaction, with no risk of cladding damage.

Set **FLOOR HEATING** includes two-component waterproofing **ATLAS WODER DUO**. This water- and dampproofing sealing mass forms insulation of light, medium and heavy type, which provides watertightness and substrate protection at points particularly subject to action of water and damp, i.e. washbasins or shower cabins (including the walk-in ones).

For application of cladding with floor heating system one should choose gel adhesive **ATLAS GEOFLEX** of C2TE class. Technology of siliceous gel allows to form a mortar of spreading consistency, which ensures excellent filling underneath a tile, therefore provides uniform transfer of heat. As an adhesive of enhanced parametres, it can be used on difficult substrates, also those subject to deformation. Application of coats 15 mm thick enables electric mass embedding with no need for an additional floor layer.

A perfect product, not only supplementing the set, but also improving the cladding appearance, is **ATLAS ELASTIC GROUT**. It is a mortar based on selected aggregates which ensure long term aesthetics and functionality. Its properties enable problem-free application, smooth joint surface facilitates cladding maintenance. Colour scheme of 37 trendy shades gives enormous choice of tones and brings vast possibilities for an interior arrangement.

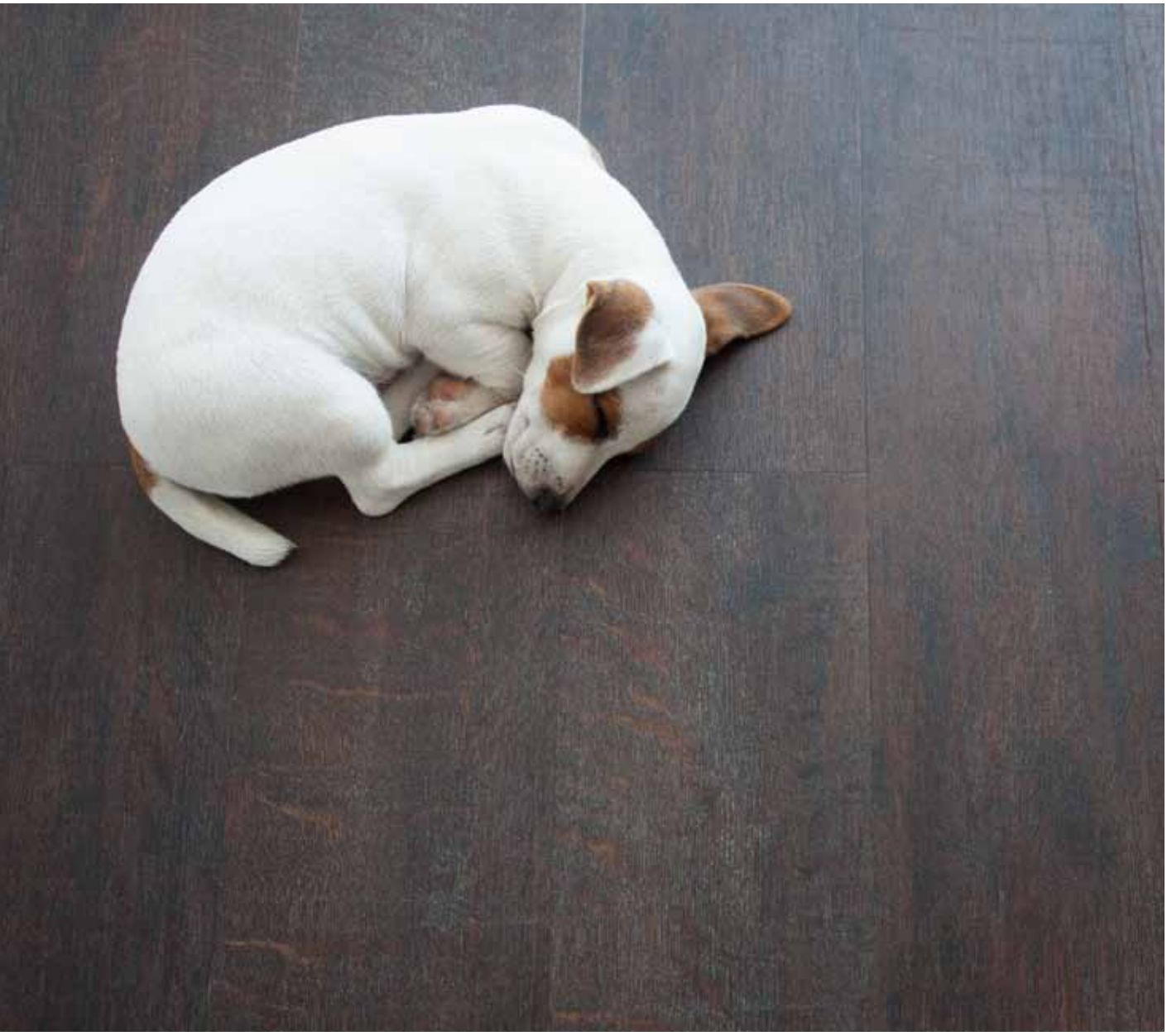
AESTHETICS

COMFORT AND SAFETY

RESISTANCE TO GROWTH OF FUNGI AND ALGAE

- **ATLAS WODER DUO** – two-component waterproofing
- **ATLAS GEOFLEX** – highly flexible gel adhesive
- **ATLAS ELASTIC GROUT**

set floor heating
DRY ZONES



Ideal distribution of temperature in a room, i.e. thermic comfort with no need for installation of heaters, decide about the use of floor heating systems not only in wet rooms (e.g. bathrooms), but also in halls, bedrooms and living rooms.

Floor heating system causes action of the whole floor structure, including the cladding finish, which results in occurrence of tensions. Thus, an adhesive must be flexible in order to compensate stress and to prevent destruction of tiling.

The main feature of **ATLAS GEOFLEX** adhesive is an innovative siliceous gel technology which allows to adjust its consistency to actual needs during application. **ATLAS GEOFLEX** successfully fixes cladding of any type, even on the most demanding substrates. It can be applied onto substrate at temperature of even +35°C. Owing to appropriate water management, **ATLAS GEOFLEX** guarantees full bonding to substrates of various grade of absorptiveness.

The set also includes fine aggregate cement **ATLAS TIGHT GROUT**. Colour scheme of 40 shades enables perfect grout and cladding matching. Due to elasticity, it can be used on difficult substrates subject to changes of temperature and deformation.

- **ATLAS GEOFLEX** – highly flexible gel adhesive
- **ATLAS TIGHT GROUT**

RESISTANCE TO HIGH TEMPERATURE
DURABILITY
WATERTIGHTNESS

set quick refurbishment

Refurbishment usually involves dealing with great inconvenience – same in case of residential, commercial and service or industrial surfaces. Exclusion from use of communications routes, commercial or industrial areas brings loss to an owner. In case of residential rooms it also brings temporary change of standards and habits to the inhabitants.

Set **QUICK REFURBISHEMENT** has been prepared with a view to projects executed under pressure of time. Its main element consists of **ATLAS PLUS EXPRESS** – rapid set deformable adhesive of C2FTE S1 class. It is designed for fixing cladding in short time projects – both indoors and outdoors. Foot traffic and grouting is possible just after 4 hours since tiling, regardless the cladding type. The set includes also rapid set **ATLAS ARTIS GROUT**, which is an excellent choice for surfaces exposed to great loads and potential deformations. It is highly elastic, resistant to mould, easy to prepare and apply.

In case of wet and damp zones, the set should be supplemented with elastic sealing mass **ATLAS WODER E**. It forms dampproofing of light type, seals surfaces on walls and floors or around passages of water and sewage installations.

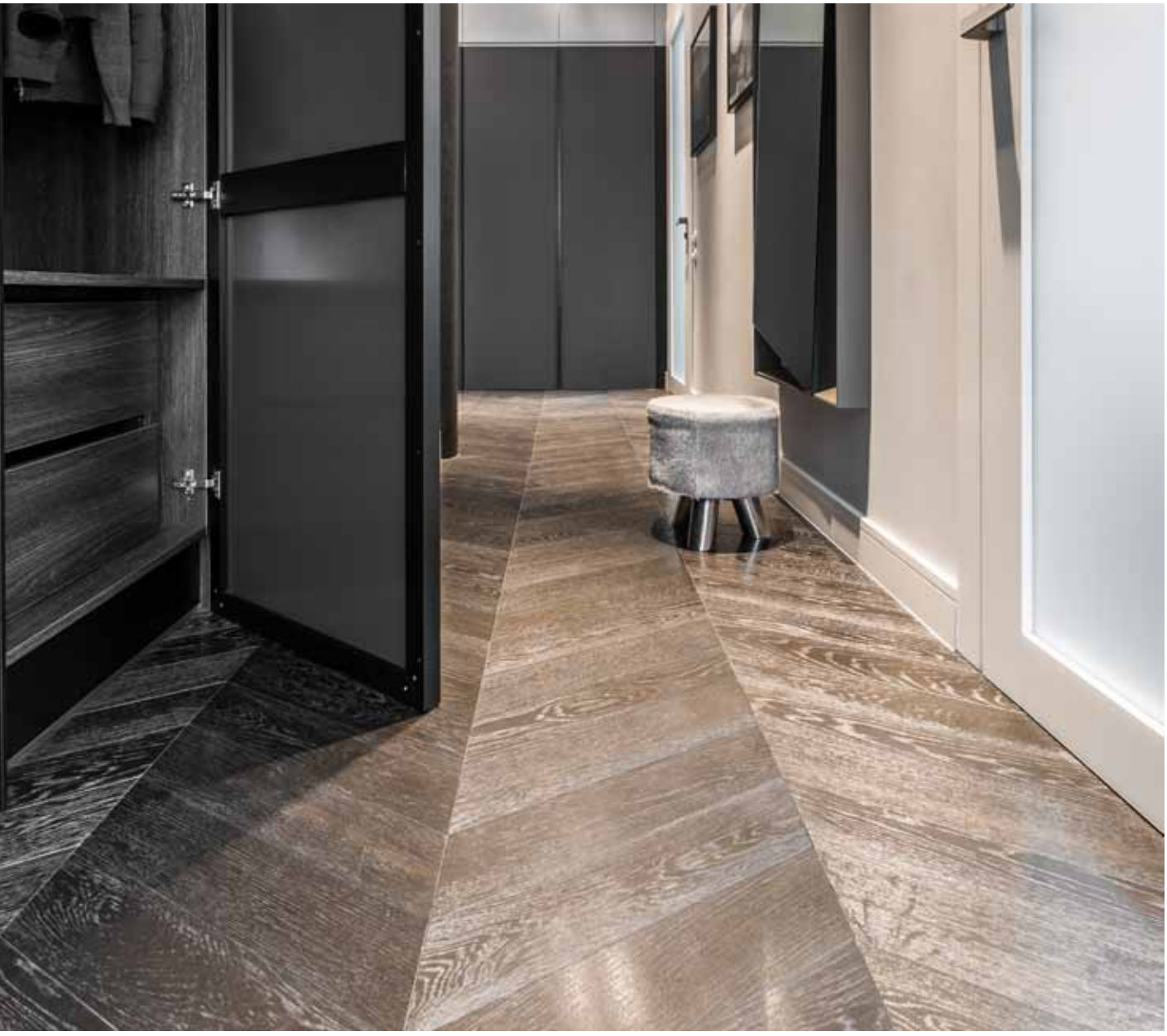
- **ATLAS WODER E** – elastic sealing mass
- **ATLAS PLUS EXPRESS** – rapid set, highly flexible deformable adhesive
- **ATLAS ARTIS GROUT**

EFFICIENCY AND RAPIDITY

COMFORT AND SAFETY

RESISTANCE TO MOULD

set corridor



Corridors, halls and other rooms subject to intensive operational loads are very often tiled with ceramic cladding imitating timber or stone slabs. Materials used for their fixing should be selected with particular care. Moreover, the need to keep appropriate level of great size substrates can be a challenge to contractors and can require application of additional leveling coats.

SET CORRIDOR includes **OK! ELASTIFIED ADHESIVE**. An innovative technology of double fibres makes it spread excellently and its net of reinforcing fibres forms strong and durable bond. This guarantees long time durability of ceramic or stone cladding.

Owing to application in coats up to 10 mm thick, the adhesive allows to level substrate irregularities (residues of previous cladding) with no additional leveling layer. Technology of double fibres prevents tiles from sinking into the mortar coat, which enables safe and quick tiling.

A finishing element of the set consists of appropriate grout, which in case of a corridor – a surface subject to heavy loads – should be most of all resistant to intensive use and washing. **ATLAS ELASTIC GROUT** supplements this set, as it can be applied with tiles of any size, also large ones. Owing to its elasticity, it is recommended for difficult substrates, not only in residential housing, but in service and industrial objects as well. Reduced absorptiveness prevents dirt penetration and discolouration, improved mechanical resistance protects against damage.

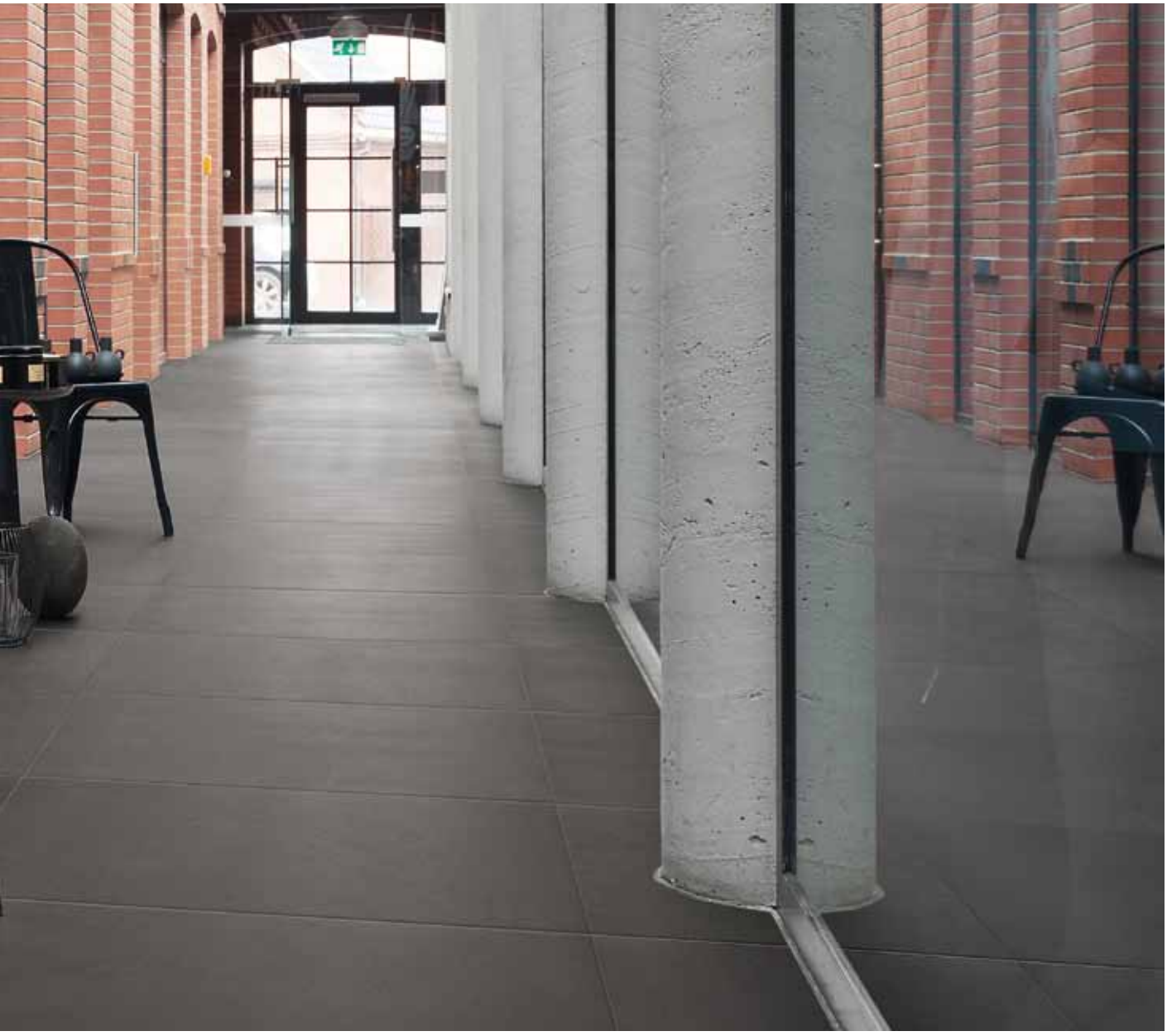
- **OK! ELASTIFIED ADHESIVE**
- **ATLAS ELASTIC GROUT**

IMPROVED MECHANICAL RESISTANCE

ADHESIVE STABILITY UNDERNEATH A TILE

DURABLE AND INTENSIVE COLOURS FOR YEARS

set halls and malls



REALIZACJA TUBĄDZIN, KOLEKCJA INDUSTRIO, ATLAS FUGA ARTIS, KOLOR CIEMNOSZARY 036

Communication routes, which include stairs, halls, staircases, industrial halls and malls, are subject to great and changeable loads, sometimes also resulting from a vehicle traffic. They are often exposed to substrate damp and frequent changes of temperature. Representative sections of such objects are mostly finished with stone cladding (marble, granite, sandstone) which, in combination with intensive operation, requires more specialist means.

A solution bringing safe installation of cladding exposed to intensive use is **ATLAS PLUS MEGA WHITE** – thick-coat deformable S1 adhesive designed for application of small as well as very large formats. It enables fixing and substrate leveling within the thickness range from 4 up to 20 mm. Moreover, its self-spreading formula facilitates leveling and provides perfect filling of gaps underneath tiles, which eliminates formation of air voids. It guarantees complete support to large size tiles, prevents cladding cracking and damage caused by impact or local pressure. Specially selected, white cement – based recipe gives confidence that even bright, vulnerable to discolouration stone cladding will keep its exclusive appearance. The adhesive can be applied on any substrates and with tiles of any size and type. It can also be used on so called difficult substrates: terrazzo, old tiles or OSB boards.

The set includes also **ATLAS ARTIS GROUT**. This grouting mortar is recommended for cladding exposed to significant operational loads, at wet and damp zones or outdoors. Due to great resistance to abrasion, it is an excellent choice for communication routes. It can be used for grouting cladding of any format, ceramic or stone tiles, glass mosaic. **ATLAS ARTIS GROUT** is available in 40 durable colours. Moreover, owing to content of ions of silver, it holds antibacterial properties. Hydrophobic additives protect the grout against penetration of dirt and growth of mould.

- **ATLAS PLUS MEGA WHITE** – deformable thick-coat adhesive
- **ATLAS ARTIS GROUT**

RESISTANCE TO HEAVY LOADS

SUBSTRATE LEVELING UP TO 20 mm

RESISTANCE TO SOILING

set XL formats

TUBĄDZIN PROJECT, MONOLITH BRAND, EPOXY COLLECTION, ATLAS ARTIS GROUT, COLOUR SILVER 134

The newest trends in interiors designing bring cladding in extra large formats. Such ceramics imparts unique modern character, brings broader possibilities of design creation. But, they also make a challenge to installers. Products meeting requirements of large size cladding, which is often used at areas of intensive foot traffic (e.g. halls), must show exceptional performance. Adhesives must ensure complete support underneath a tile in order to prevent its damage and should allow tiling from top to bottom.

An adhesive which guarantees perfect and durable result, regardless the size and type of cladding, application or substrate, is **ATLAS ULTRA GEOFLEX** C2TE S1. This deformable gel adhesive is characterised by no slip even with extra large formats. It assures great stabilization of large size tiles fixed on horizontal surfaces. It is an adhesive of high bonding, its range of coat thickness from 2 up to 15 mm allows surface leveling.

This set is supplemented by **ATLAS ARTIS GROUT**, which is characterized by high resistance to washing, scrubbing, abrasion and detergents during the whole period of operation. Width range of 1-25 mm guarantees safe application with tiles of any type. Content of strictly selected aggregates and special mix of cements eliminate occurrence of microcracking and cracking, discolorations and efflorescence.

- **ATLAS ULTRA GEOFLEX** – deformable highly flexible gel adhesive
- **ATLAS ARTIS GROUT**

WITH EXTRA LARGE TILES

QUICK AND CONVENIENT IN USE

DURABLE COLOURS

set façades

TUBĄDZIN PROJECT, RECOMMENDED ATLAS ARTIS GROUT, COLOUR GREY 035

A façade is a building element which, beside its operational part connected to, e.g. external thermal insulation, decides about an object aesthetics. It is mostly the mode of its arrangement and execution to decide about a building character. In order to form an exclusive façade, investors often decide to fix ceramic cladding. Currently available solutions do not only bring products providing cleanliness and durability at plinth zone, but also give full spectrum of façade tiles allowing to form modernist and unique designs. They can also be applied as ceramic or stone top layer of ETICS systems.

ATLAS PLUS deformable adhesive of C2TE S1 class is a product recommended for application of cladding subject to extreme operational conditions – both indoors and outdoors. It is used for fixing tiles of small, medium and large formats, also those of medium absorptiveness, ceramic, cement or lime ones. Technologies introduced in the adhesive recipe ensure extreme bonding and resistance to changes of temperature. The technology of double fibres guarantees convenient and quick application. The polymer technology allows to use **ATLAS PLUS** at temperature close to 0°C and to fix extra large formats of any type without additional support, which accelerates and facilitates the process of installation.

Façades of buildings are subject to dynamic changes of temperature, action of sunlight and moisture. In case of a façade top layer made of tiles, it is crucial to choose a grout which is resistant to growth of fungi and discolouration during the whole period of operation, even when exposed to strong sunlight. **ATLAS ARTIS GROUT** is a high quality mortar meeting all requirements expected from a product for a façade finishing – it is resistant to UV radiation (durable and intensive colours for years) and recommended for use on surfaces subject to permanent damp.

- **ATLAS PLUS** – deformable highly flexible adhesive
- **ATLAS ARTIS GROUT**

DURABILITY

EASY AND QUICK APPLICATION

WATERTIGHTNESS

ATLAS
products description

grouts

ATLAS ARTIS GROUT
1-25 mm, CG 2 WA

40 colours

- rapid set
- perfect for kitchens, bathrooms
- recommended on difficult substrates: terraces, balconies, floor heating
- easy to keep clean

ATLAS TIGHT GROUT
1-7 mm, CG 2 WA

40 colours

- elastic and resistant to damage
- smooth and easy to keep clean
- in bathrooms and kitchens, on balconies and floor heating

ATLAS GROUT
1-6 mm, CG 2 WA

15 colours

- smooth and even
- easy to keep clean
- water- and frost-resistant
- for kitchens, bathrooms, on terraces and balconies

ATLAS ELASTIC GROUT
1-7 mm, CG 2 WA

37 colours

- perfectly smooth and easy to keep clean
- excellent for kitchens, bathrooms
- particularly recommended on difficult substrates: terraces, balconies, floor heating
- for indoor and outdoor use

ATLAS EPOXY GROUT
1-10 mm, RG

12 colours

- joint width from just 1 mm
- perfectly smooth final effect
- excellent for kitchens, bathrooms, resistant to juices, acids and grease
- recommended in shower tubs, sauna and swimming pools, garages, boiling rooms

ATLAS DECORATIVE GROUT
1-15 mm, CG 2 WA

5 colours

- durable glitter effect
- elastic
- recommended for glass mosaic, glass blocks

adhesives for tiles
C2 CLASS ADHESIVES

GEL TECHNOLOGY

ATLAS ULTRA GEOFLEX
highly flexible deformable gel adhesive
2-15 mm, C2TE S1

- for tiles of any type and size, incl. ceramic, stone and glass ones
- on extremely difficult substrates, i.a. old tiles, terrazzo, plasterboards, OSB-boards and waterproofing
- the widest range of use, i.a. on floor heating, terraces, in swimming pools
- no slip even with extra large tiles

ATLAS GEOFLEX
highly flexible gel adhesive
2-15 mm, C2TE

- for tiles of any type, incl. ceramic, gres and glass ones
- on difficult substrates, i.a. old tiles, terrazzo, plasterboards, waterproofing
- on balconies, terraces, floor heating
- no slip even with large tiles
- well spreading underneath a tile

ATLAS GEOFLEX WHITE
highly flexible gel adhesive
2-15 mm, C2TE

- recommended for marble and natural stone
- for tiles of any type, incl. ceramic, gres and glass ones
- on difficult substrates, i.a. old tiles, terrazzo, plasterboards, water-proofing
- on balconies, terraces, floor heating
- no slip even with large tiles
- well spreading underneath a tile

DOUBLE FORCE

ATLAS PLUS S2 HYDRO
highly deformable adhesive with function of waterproofing

- 2 in 1: one product – comprehensive solution: S2 adhesive and waterproofing
- with tiles of any size, even > 5 m²
- with cladding of any type: ceramic tiles/ gres/ sintered graphite/ of slim type/ natural stone/ composite boards
- on any, even the most demanding substrates
- great resistance to surface thermal shock
- for application of terrace tapes and profiles
- crack-bridging – 0.8 mm

ATLAS PLUS
highly flexible deformable gel adhesive 2-10 mm, C2TE S1

- double strength of fibres and polymers
- 3 time greater initial bonding
- for tiles of any type
- for bathrooms, terraces, garages, swimming pools
- on OSB-boards, plasterboards, old tiles, waterproofing,
- terrazzo, floor heating
- perfect bonding at just 1°C

ATLAS PLUS WHITE
highly flexible deformable gel adhesive 2-10 mm, C2TE S1

- recommended for marble and natural stone
- for tiles of any type, incl. ceramic, gres and glass ones
- on difficult substrates, i.a. old tiles, terrazzo, plasterboards, OSB-boards, waterproofing
- on façades, terraces, floor heating, in swimming pools

adhesives for tiles
C2 CLASS ADHESIVES

ATLAS PLUS EXPRESS
rapid set, highly flexible deformable gel adhesive
2-5 mm, C2 FTE S1

- recommended for quick refurbishments
- for tiles of any type, incl. ceramic, gres and glass ones
- on difficult substrates, i.a. old tiles, terrazzo, plasterboards, OSB-boards, waterproofing
- on façades, terraces, floor heating, in swimming pools

ATLAS PLUS MEGA
highly flexible deformable adhesive
4-20 mm, C2E S1

- self-spreading, perfectly fills gaps underneath a tile
- for tiles of any type, incl. ceramic, stone and glass ones
- on difficult substrates, i.a. old tiles, terrazzo, OSB-boards, waterproofing
- on terraces, floor heating, in swimming pools

ATLAS PLUS MEGA WHITE
highly flexible deformable adhesive
4-20 mm, C2E S1

- recommended for marble and natural stone
- for tiles of any type, incl. ceramic, gres and glass ones
- self-spreading, perfectly fills gaps underneath a tile
- on difficult substrates, i.a. old tiles, terrazzo, OSB-boards, waterproofing
- on terraces, floor heating, in swimming pools

ATLAS ADHESIVE FOR KITCHEN AND BATHROOM
2-10 mm, C2T

- for ceramic, gres and clinker tiles
- for small, medium and large size tiles
- no slip – allows tiling from top to bottom
- on floor heating and plasterboards

ATLAS ELASTYK
highly flexible adhesive
2-10 mm, C2TE

- for ceramic tiles, incl. mosaic, gres, stone and clinker
- for stone tiles, i.a. on floor heating, plasterboards, waterproofing, balconies
- allows tiling from top to bottom
- high bonding

adhesives for tiles
C1 CLASS ADHESIVES

DOUBLE FORCE

OK!
elastified adhesive
2-10 mm, C1TE

- double strength of fibres
- improved mechanical resistance
- for ceramic tiles, incl. mosaic and gres
- grouting just after 12/24 hours
- temperature of application up to +30°C

ATLAS ELASTIFIED ADHESIVE MORTAR
2-10 mm, C1TE

- for ceramic tiles, incl. mosaic and gres
- in kitchens, bathrooms, corridors
- allows tiling from top to bottom (extended open time)

ATLAS MIG 2
rapid set adhesive
2-5 mm, C1FTE

- recommended for quick refurbishments
- for ceramic tiles, incl. mosaic and gres
- in bathrooms, kitchens, corridors, washrooms and garages
- allows tiling from top to bottom

ATLAS ADHESIVE FOR TILES
2-10 mm, C1T

- universal for glazed tiles and terracotta
- in kitchens and bathrooms
- for small and medium size tiles
- no slip – allows tiling from top to bottom

ATLAS ADHESIVE FOR GLAZED TILES AND TERRACOTTA
2-10 mm, C1T

- for small and medium size tiles
- in kitchens, bathrooms, corridors
- no slip – allows tiling from top to bottom

ATLAS ATUT
adhesive for tiles
2-10 mm, C1T

- for ceramic tiles, incl. mosaic and gres
- in kitchens and bathrooms
- allows tiling from top to bottom

waterproofing

ATLAS WODER DUO
two-component waterproofing

- protects against water under high pressure
- resistant to negative side water pressure
- reinforced with polymer fibres
- bridges stabilized cracks up to 1 mm
- broadest range of use

ATLAS WODER E
fast-drying liquid foil
1-3 mm

- protects against moisture
- highly elastic
- for indoor and outdoor use
- element of a sealing system
- tiling just after 4 hours

ATLAS WODER W
liquid foil
1-3 mm

- protects against moisture
- highly elastic
- for indoor use
- applied with a paintbrush or a steel trowel

ATLAS WODER DUO EXPRESS
rapid-set 2-component waterproofing

- highly elastic
- for balconies and terraces
- tiling after 3 hours
- efficiency increased by 25%
- two layers of waterproofing in one cycle
- bridges stabilized cracks up to 0,8 mm

ATLAS WODER S
watertight cement mortar 1-3 mm

- protects against pressurised water
- elastic, water vapour permeable
- high bonding

ATLAS BACKER ROD
elastic expansion joints backer

- resistant to ageing
- non-absorbable
- very high flexural strength

ATLAS HYDROBAND
bathroom kit

- for sealing wall and floor corners and expansion joints
- highly elastic
- resistant to temperature from -30°C up to +90°C

ATLAS TAPE AND CORNERS
accessories for WODER type waterproofing

- for sealing edges and expansion joints
- highly elastic
- resistant to temperature from -30°C up to +90°C

ATLAS BUTYL TAPE
self-adhesive sealing tape

- high flexural strength
- with self-adhesive layer with easily removed protection
- perfect bond to WODER type waterproofing

ATLAS HYDROBAND 3G
sealing tapes, corners without perforation

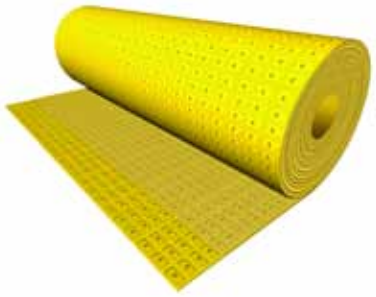
- high tensile strength
- high resistance to aggressive environment
- resistant to pressurised water (1.5 bar)

ATLAS SMB BITUMINOUS MEMBRANE
asphalt self-adhesive membrane

- easy in use
- keeps elasticity parametres even at -20°C
- water-resistant and damp-resistant
- water vapour barrier

ATLAS GENERAL-PURPOSE BITUMEN MASS
bitumen mass for foundations and roofs

- protects against water and water vapour action
- resistant to atmospheric factors
- very good bonding to mineral substrates
- can be used on both dry and damp substrate



ATLAS MATA 630
drainage and crack-relief mat

- reduces tension in a terrace floor
- resistant to moisture
- enables fixing ceramic, natural stone, conglomerates cladding on critical substrates
- enables ventilation and frainage of moisture from underneath a tile
- protects against thermal damage

priming agents

ATLAS UNI-GRUNT
fast-drying priming emulsion

- on cement, magnesium screed, screeds with heating system, plasterboards, gypsum and cement plasters and top coats
- to be applied at temperature from +5°C up to +30°C
- applied with a roller, a paintbrush or a sprayer
- beneath tiles, plasters, gypsum coatings, waterproofing, floors, paints and wallpapers

ATLAS UNI-GRUNT PLUS
deep penetrating priming emulsion
for substrate strengthening

- on cement, magnesium, anhydrite screeds, screeds with heating system, plasterboards, bricks, hollow blocks, ferroconcrete, gypsum and cement plasters and top coats
- to be applied at temperature from +5°C up to +35°C
- applied with a roller, a paintbrush or a sprayer
- beneath tiles, plasters, gypsum coatings, waterproofing, floors, paints and wallpapers

ATLAS OPTI-GRUNT
general-use priming emulsion

- on gypsum and cement plasters and top coats, cellular concrete
- to be applied at temperature from +5°C up to +25°C
- applied with a roller or a paintbrush
- beneath paints and wallpapers

ATLAS ULTRAGRUNT
fast-drying primer for critical substrates

- improves bonding, contains aggregate
- on concrete, terrazzo, tiles, OSB-boards
- beneath adhesives and self-leveling masses
- fast-drying – further application after 4 h

ATLAS GRUNTO-PLAST
contact coat for difficult substrates

- contains aggregate
- on cement, magnesium, anhydrite screeds, screeds with heating systems, plasterboards, bricks, hollow blocks, ferroconcrete, asphalt, terrazzo, OSB-boards, PVC, gypsum and cement plasters and top coats
- improves effective area of bonding
- to be applied at temperature from +5°C up to +30°C
- beneath tiles, plasters, gypsum coatings, waterproofing, floors

technical data

grouts

PRODUCT						
	ATLAS ARTIS GROUT	**ATLAS ELASTIC GROUT**	**ATLAS TIGHT GROUT**	**ATLAS GROUT**	**ATLAS DECORATIVE GROUT**	**ATLAS EPOXY GROUT**
	Rapid-set fine aggregate grout	Flexible cement grout	Fine-aggregate cement grout	Cement grout	Decorative grout	Two-component grout
Reference document	PN-EN 13888:2010					
	TECHNICAL DATA					
Class	CG 2 WA	CG 2 WA	CG 2 WA	CG 2 WA	CG 2 WA	RG
Packaging (kg)	2 & 5	2 & 5	2 & 5	2 & 5	2	2 & 5
Package type	bucket	foil bag	foil bag	paper bag	foil bag	bucket
Number of colours	40	37	40	15	5	12
Divided packaging	+	-	-	-	-	+
Mixing water for 1 kg of dry mix	0.21-0.22 l	0.28-0.29 l	0.28-0.29 l	0.28-0.29 l	0.22-0.24 l	n/a
Joint width (mm)	1-25	1-7	1-7	1-6	1-15	1-10
Temperature during application (°C)	5-35	5-25	5-25	5-25	5-35	10-25
Aluminous cement	+	n/a	n/a	n/a	n/a	n/a
Portland cement	n/a	+	+	+	+	n/a
Resistance to fungi	+	+	+	+	+	+
Low absorptiveness	+	+	+	+	+	+
Flexibility	+	+	+	+	+	+
Maturing time (min)	5	5	5	5	5	3
Pot life	40 minutes	2 hours	2 hours	2 hours	2 hours	45 minutes
Initial cleaning	10-30 min	10-30 min	10-30 min	10-30 min	30 min	5 min
Final cleaning	3 h	3 h	3 h	3 h	3 h	20 min
Foot traffic (h)	3	24	24	24	24	24
Full load (h)	24	24	24	24	24	24
Full chemical resistance	n/a	n/a	n/a	n/a	n/a	7 days
Full mechanical resistance	24 h	24 h	24 h	24 h	24 h	7 days
Final shade after complete drying	2-3 days	2-3 days	2-3 days	2-3 days	2-3 days	12 hours
Water absorption after 30 min (g)	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	n/a
Water absorption after 240 min (g)	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 0.1
Hygienic attest for contact with drinking water	+	+	+	+	-	+
Radiation Hygiene Certificate	+	+	+	+	+	+

PRODUCT						
	ATLAS ARTIS GROUT	**ATLAS ELASTIC GROUT**	**ATLAS TIGHT GROUT**	**ATLAS GROUT**	**ATLAS DECORATIVE GROUT**	**ATLAS EPOXY GROUT**
	Rapid-set fine aggregate grout	Flexible cement grout	Fine-aggregate cement grout	Cement grout	Decorative grout	Two-component grout
FORMATS OF TILES						
Low and medium size tiles (≤ 0.1 m²)	+	+	+	+	+	+
Large size tiles (≤ 0.25 m²)	+	+	+	+	+	+
Extra large size tiles (> 0.25 m²)	+	+	+	n/a	+	+
Slim type gres tiles	+	+	+	use ATLAS ELASTIC GROUT	+	+
RANGE OF USE						
Indoors	+	+	+	+	+	+
Outdoors	+	+	+	+		+
Horizontal surfaces	+	+	+	+	+	+
Vertical surfaces	+	+	+	+	+	+
Stoneware, terracotta, monocottura tiles	+	+	+	use ATLAS ELASTIC GROUT	+	+
Clinker and cotto tiles	+	+	+	use ATLAS ELASTIC GROUT	+	+
Porcelain-gres tiles	+	+	+	+	+	+
Tiles not susceptible to discolouration	+	+	+	+	+	+
Ceramic mosaic	+	+	+	+	+	+
Glass mosaic	+	+	+	use ATLAS ELASTIC GROUT	+	+
Glass tiles resistant to scraping	+	+	+	use ATLAS ELASTIC GROUT	+	+
Decorated tiles of delicate pattern	+	+	+	use ATLAS ELASTIC GROUT	+	+
Mirrors, mirror tiles and other surfaces susceptible to scraping	+	+	+	use ATLAS ELASTIC GROUT	+	+
Metal tiles and aluminum panels	+	+	+	use ATLAS ELASTIC GROUT	+	+
Natural stone, e.g. marble	+	+	+	use ATLAS ELASTIC GROUT	+	+
Glass brick	+	use ATLAS ARTIS GROUT	use ATLAS ARTIS GROUT	use ATLAS ARTIS GROUT	+	+
Clinker brick	+	use ATLAS ARTIS GROUT	use ATLAS ARTIS GROUT	use ATLAS ARTIS GROUT	use ATLAS ARTIS GROUT	use ATLAS ARTIS GROUT

adhesives for tiles

GEL TECHNOLOGY

PRODUCT								
	ATLAS ULTRA GEOFLEX	**ATLAS GEOFLEX**	**ATLAS GEOFLEX WHITE**	**ATLAS PLUS S2 HYDRO**	**ATLAS PLUS**	**ATLAS PLUS WHITE**	**ATLAS PLUS EXPRESS**	**ATLAS PLUS MEGA WHITE**
	Deformable S1 gel adhesive	Highly flexible gel adhesive	Highly flexible white gel adhesive	Deformable S2 adhesive with waterproofing	Highly flexible deformable S1 adhesive	White deformable S1 adhesive	Rapid set deformable S1 adhesive	Deformable S1 white adhesive for floor tiles
Reference document	PN-EN 12004+A1:2012			PN-EN 12004/14891		PN-EN 12004+A1:2012		
Packaging size	5 kg, 22.5 kg, 25 kg	5 kg, 22.5 kg, 25 kg	5 kg, 22.5 kg, 25 kg	15 kg	5 kg, 10 kg, 20 kg, 25 kg	25 kg	25 kg	25 kg
Packaging type	foil bag/ alubag (5 kg)	foil bag/ alubag (5 kg)	foil bag/ alubag (5 kg)	foil bag	foil bag/ alubag (5 kg)	foil bag	foil bag	foil bag
TECHNICAL DATA								
Class	C2TE S1	C2TE	C2TE	C2TE S2	C2TE S1	C2TE S1	C2FTE S1	C2E S1
Bonding [N/mm²]	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0	≥ 1.0
Layer thickness [mm]	2-15	2-15	2-15	2-10	2-10	2-10	2-5	4-20
Temperature of application [°C]	5-35	5-35	5-35	5-25	1-25	5-25	5-25	5-25
Pot life [h]	approx. 4	approx. 4	approx. 4	up to 4	approx. 4	approx. 5	up to 1	approx. 2
Open time [min]	> 30	> 30	> 30	> 30	> 30	> 30	> 30	> 30
Adjustability [min]	20	20	20	10	10	10	10	20
Foot traffic/grouting after [h]	12	12	12	24	24	42	4	24
Full load – foot traffic after [days]	approx. 3	approx. 3	approx. 3	approx. 3	approx. 3	approx. 3	24 hours	approx. 4
Full load – vehicle traffic after [days]	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14
Full load under water pool/tank [days]	approx. 14	n/a	n/a	approx. 14	approx. 14	approx. 14	approx. 14	approx. 14
Floor heating (for warmed up surfaces) [days]	approx. 14	approx. 14	approx. 14	approx. 21	approx. 21	approx. 21	approx. 21	approx. 14
Shelf life	12/24 (alu)	12/24 (alu)	12/24 (alu)	12	15/24 (alu)	12	12	12
TYPE OF TILES TO BE FIXED								
Glazed tiles	+	+	+	+	+	+	+	+
Terracotta	+	+	+	+	+	+	+	+
Gres-porcelain	+	+	+	+	+	+	+	+
Laminated gres	+	use ATLAS ULTRA GEOFLEX		+	+	+	+	+
Stone cladding	+*	+*	+	+*	+*	+	+*	+*
Clinker	+	+	+	+	+	+	+	+
Stoneware	+	+	+	+	+	+	+	+
Ceramic mosaic	+	+	+	+	+	+	+	+
Glass mosaic	+**	+**	+	+**	+**	+**	+**	+**
Glass, dyed, printed tiles, etc.	+***	+***	+	+***	+***	+***	+***	+**

PRODUCT								
	ATLAS ADHESIVE FOR BATHROOM AND KITCHEN	**ATLAS ELASTYK**	**ATLAS OK!**	**ATLAS ELASTIFIED ADHESIVE MORTAR**	**ATLAS MIG 2**	**ATLAS ADHESIVE FOR TILES**	**ATLAS ADHESIVE FOR GLAZED TILES AND TERRACOTTA**	**ATLAS ATUT**
	Flexible adhesive	Highly flexible adhesive	Elastified adhesive	General use adhesive	Rapid set adhesive for gres	Basic adhesive	Basic adhesive	Basic adhesive
Reference document	PN-EN 12004+A1:2012							
Packaging size	22.5 kg	25 kg	5 kg, 22.5 kg, 25 kg	5 kg, 10 kg, 22.5 kg, 25 kg	25 kg	20 kg	20 kg	25 kg
Packaging type	foil bag	paper bag	paper bag	paper bag	paper bag	paper bag	paper bag	paper bag
TECHNICAL DATA								
Class	C2T	C2TE	C1TE	C1TE	C1FTE	C1T	C1T	C1T
Bonding [N/mm²]	≥ 1.0	≥ 1.0	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5	≥ 0.5
Layer thickness [mm]	2-10	2-10	2-10	2-10	2-5	2-10	2-10	2-10
Temperature of application [°C]	5-25	5-25	5-30	5-25	5-25	5-25	5-25	5-25
Pot life [h]	up to 4	up to 4	up to 4	up to 4	up to 1	u up to 4	up to 4	up to 4
Open time [min]	> 20	> 30	> 30	> 30	> 30	> 20	> 20	> 20
Adjustability [min]	10*	10	10	10	10	10	10	10
Foot traffic/grouting after [h]	24	24	24	24	4	24	24	24
Full load – foot traffic after [days]	approx. 3	approx. 3	approx. 3	approx. 3	approx. 3	approx. 3	approx. 3	approx. 3
Full load – vehicle traffic after [days]	approx. 14	approx. 14	n/a	n/a	n/a	n/a	n/a	n/a
Full load under water pool/tank [days]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Floor heating (for warmed up surfaces) [days]	approx. 14	approx. 14	n/a	n/a	n/a	n/a	n/a	n/a
Shelf life	12	12	12	12	12	12	12	12
TYPE OF TILES TO BE FIXED								
Glazed tiles	+	+	+	+	+	+	+	+
Terracotta	+	+	+	+	+	+	+	+
Gres-porcelain	+	+	+	+	+	+	+	+
Laminated gres	use ATLAS PLUS							
Stone cladding	+*	+*	+	+*	+			+*
Clinker	+	+	+	+	+			+
Stoneware	+	+						
Ceramic mosaic	+	+	+	+	+	+	+	+
Glass mosaic	+**	+**						
Glass, dyed, printed tiles, etc.	+***	+***						

* if in doubt contact the ATLAS technical department
** conduct an application test
*** conduct an application test and check recommendations of the tiles manufacturer

waterproofing

PRODUCT					
	ATLAS WODER DUO	**ATLAS WODER DUO EXPRESS**	**ATLAS WODER E**	**ATLAS WODER W**	**ATLAS WODER S**
	Two-component elastic waterproofing	Rapid set two-compo-nent waterproofing	Fast-drying liquid foil	Liquid foil	Watertight cement mortar
Reference document	ITB-KOT-2018/0383 ed.1 PN-EN 14891:2012	PN-EN 14891:2012	ITB-KOT-2018/491 ed.1	ITB-KOT-2018/492 ed.1	ITB-KOT-2018/490 ed.1
TECHNICAL DATA					
Min/max coat thickness [mm]	2/3	2/3	1/3	1/3	1/3
Open time [min]	30	30	30	30	30
Pot life [min]	60	45	whole shelf life period	whole shelf life period	120
Application of the second coat after [h]	3	**	1	3	5
Top coat application [h]	12	3	4	24	24
Resistance to pressurized water [head of water in m]	70	15	not resistant	not resistant	50
Resistance to pressurized water at negative side water pressure [head of water in m]	50	not resistant	not resistant	not resistant	not resistant
Loading with pressurized water [days]	7	not resistant	not resistant	not resistant	7
Resistance to agents for water purification, incl. chlorine	resistant	not resistant	not resistant	not resistant	not resistant
Chemical resistance – environmental exposure class XA2 (coating resistant to communal sewage, liquid manure, aggressive groundwater)	resistant	not resistant	not resistant	not resistant	not resistant
Cracks bridging min. up to [mm]	1.0	0.75	0.8	-	-

priming agents





PRODUCT	ATLAS UNI-GRUNT	ATLAS UNI-GRUNT PLUS	ATLAS OPTI-GRUNT	ATLAS ULTRA-GRUNT	ATLAS GRUNTO-PLAST
Description	Fast drying priming emulsion	Deep-penetrating priming emulsion for substrate strengthening	General-use priming emulsion	Fast drying primer for critical substrates	Contact coat for difficult substrates
Packaging size	1 kg, 5 kg, 10 kg	1 kg, 5 kg	5 kg	5 kg, 15 kg	5 kg
TECHNICAL DATA					
Form	liquid	liquid	liquid	thick liquid	thick liquid
Colour	milky	milky	milky	white	white
Consumption [kg/m2]	0.05-0.20	0.05-0.20	0.05-0.20	0.30	0.30
Time of drying	2 h – priming for self-leveling screeds 15 min – priming in other cases	2 hours	2 hours	4 hours	24 hours
Temperature of application	5-30°C	5-35°C	5-25°C	5-30°C	5-30°C
Shelf life	12 months	12 months	12 months	12 months	12 months
MODE OF APPLICATION					
Paintbrush	+	+	+	+	+
Roller	+	+	+	+	+
Sprayer	+	+			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tools and support

The development of ATLAS materials, from design until application, is supervised by specialists and professionals: in R&D laboratories, validation department, training units and quality control laboratories.

Our specialists, advisors, technical representatives are ready to support you and advice on any construction problems. Practical information concerning the use of ATLAS products can also be found on our web site www.atlas.com.pl/en together with some helpful tools.

tools and support
ONLINE APPS

„COLOURS CHART" APP

Allows selection and comparison of façade renders and paints, mosaic renders, renders imitating timber as well as grouts and silicones. It also informs about the diffused light reflection coefficient, which is helpful in façades designing.

„COLOURS AND MATERIALS LIBRARY" APP

The program allows to import sets of colours and textures of ATLAS renders and colours of ATLAS paints. This tool is designed for use with graphic programs AutoCAD and ArchiCAD.

Available for download:
- façade colours in dwg, AutoCad files, ArchiCad files
- renderings – 3D effects for mosaic renders, effects of timber, effect of brick, effect of concrete, effect of metal, effect of stone TM5 and effect of sandstone TM6

Application enables creation of professional visualizations and renderings with the use of software based on V-Ray solutions.

“DESIGN DETAILS” APP

This app is dedicated to designers as a support in preparation of project documentation. It is based on the most up-to-date knowledge.

Design details are prepared in the form of 3D pdf drawings. Examples of technical solutions are generated in dwg used by AutoCad and ArchiCad programs. Drawings are supported by detailed descriptions of materials and can be used in preparation of the technical records.

“CALCULATE CONSUMPTION” APP

Application helps to calculate consumption of particular products and materials necessary for a selected solution or system. It allows to estimate costs and materials coverage.

Detailed information on ATLAS products and solutions can also be given by our technical advisors and representatives listed on our web site **www.atlas.com.pl/en**.

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