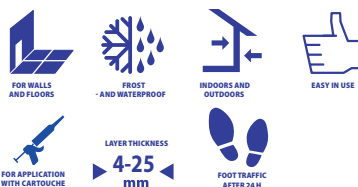




ATLAS ELASTIC SANITARY SILICONE

- stain resistant, facilitates keeping cleanliness
- for filling of joints and expansion joints
- for filling of joints between materials of various types
- ensures durable, elastic and tight filling
- available in 39 colours, compliant with colours of ATLAS grouts



Innovative technologies

ATLAS ELASTIC SANITARY SILICONE is an advanced one-component product based on polysiloxanes with acetate hardening system, used for filling and sealing joints between tiles and for filling of flexible expansion joints. Owing to optimum recipe containing appropriately selected components ATLAS ELASTIC SANITARY SILICONE silicone ensures:

- possibility of application with tiles of any type – owing to high adhesion to edges and wide range of use (4-25 mm),
- tightness – compensates deformations of expansion joints, cladding joints in the corners, etc. as well as deformations resulting from mechanical and operation loads,
- resistance to external factors – long-term UV and water action, extreme temperature.

ATLAS ELASTIC SANITARY SILICONE is a silicone mass in form of easy to apply paste, transparent or coloured with sealing properties which can be used on horizontal and vertical surfaces. Forms durable and elastic material which ensures:

- high deformability and durability – keeping the parameters and properties even after long-term intensive use in various thermal, atmospheric conditions or industrial actions, also with permanent immersion in water.
- possible use in very high temperatures, up to +180°C.

Properties

Recommended for sealing the joints between the cladding and the room equipment – around shower cabins, shower basins, bathroom furniture and fittings, wash basins, toilets, bath tubs, kitchen worktops, sinks.

Resistant to machine and pressure washing.

For caulking tiles located in the corners and for filling the expansion joints.
Permanently flexible – retains high flexibility during the whole operation period, hardens without contraction, enables caulking tiles on stable wood-based panels and plasterboards, on floor and wall heating systems.

Allows to form perfectly smooth surface.

Highly resistant to temperature - between -50°C and +180°C.

39 colours – including the colourless one, matching the colours of ATLAS grouts, silicones and finishing trims.

RANGE OF USE

indoors	+
outdoors	+
horizontal surfaces	+
vertical surfaces	+
clinker and cotto tiles	+
porcelain-gres tiles	+
ceramic mosaic	+
glass mosaic, glass brick	+
glass tiles resistant to scratching	+
impregnated wood	+
stainless steel, anodized aluminium and enameled surfaces	+
sanitary ceramics	+
shower cabins, bathtubs	+
sealing sinks and kitchen furniture	+

TYPE OF SUBSTRATE BENEATH THE CAULKED CLADDING

concrete, cement, anhydrite screed, etc.	+
floor and wall screeds as above with heating: water and electric	+
concrete walls made of ceramic brick, silicate brick, with ceramic elements	+
walls made of cellular concrete, gypsum blocks	+
cement, cement-lime, gypsum plasters, etc.	+
walls and drywalls made of plasterboards, inc. fireplace casing	+
floors made of wood, OSB, dry gypsum screed	+
steel, plastic substrates	+

TRAFFIC	
surfaces of limited traffic (individual housing)	+
surfaces of moderate traffic	+
surfaces of heavy traffic	+

WATER AND CHEMICALS LOAD	
surfaces temporarily washed with water	+
surfaces frequently washed with water	+
surfaces washed with water with detergents (used in households)	+
surfaces washed with water with aggressive chemicals*	+
surfaces subject to chemical load*	+
surfaces washed with the use of machines	+
surfaces washed with the use of power wash	+

RESIDENTIAL SINGLE- AND MULTI-FAMILY BUILDINGS	
living rooms	+
kitchens and kitchenettes	+
halls and antechambers	+
bathrooms	+
laundries	+
terraces and balconies	+
garages in single-family buildings	+
garages in multi-family buildings	+
external stairs*	+
plinth ceramic cladding*	+
ceramic cladding on façades	+
living rooms	+

OFFICE BUILDINGS	
offices	+
kitchens and kitchenettes	+
bathrooms and showers	+
corridors and staircases	+
large-size garages	+
elements of small architecture	+
ceramic cladding on façades	+
terraces and balconies	+
external stairs*	+
offices	+

PUBLIC-ACCESS, COMMERCIAL AND SERVICE BUILDINGS	
halls, corridors and staircases	+
offices	+
bathrooms and showers	+
industrial laundries*	+
industrial kitchens with adjacent premises *	+
rooms in nurseries, kindergartens, schools and other educational and cultural premises	+
lecture halls, seminar rooms, etc.	+
laboratories *	+
storage rooms	+
receptions, wards, consulting rooms and other healthcare premises	+
rooms in healthcare objects (where sterilization with UV lamps is required)	+
sterile rooms in healthcare objects, operating theatre, etc.*	+
salesrooms at pharmacies with auxiliary rooms	+
areas in sacral buildings	+
commercial halls and auxiliary premises in malls	+
areas in commercial buildings of any type	+
garages and large-size car parks	+
diagnostic station	+
auxiliary areas in sport stadiums	+
pools: adjacent premises (changing rooms, showers, etc.)	+
areas in SPA, sauna, jacuzzi	+
car showrooms	+
garages	+
car washes	+
fire protection water storage tanks	+
fountains	+
ceramic cladding on façades	+
terraces and balconies	+
external stairs*	+
plinth ceramic cladding	+

PRODUCTION AND INDUSTRIAL BUILDINGS	
production areas: areas with no aggressive chemical load	+
production areas: production of fertilizers *	+
production areas: areas with aggressive chemical load *	+
production: adjacent rooms (cloakrooms, bathrooms, offices, etc.)	+
agriculture: husbandry rooms with adjacent premises	+
wash rooms, production premises cleaned with vast amount of water	+
storage rooms, warehouses	+

*determination of chemical loads and confirmation of resistance needed


Technical data

ATLAS ELASTIC SANITARY SILICONE is a sealer based on silicone elastomer.

Hardening system	acetate
Substrate temperature and ambient temperature during work	from +5°C to +40°C
Temperature resistance after hardening	from -50° up to +180°C
Joint depth	max. 14 mm
Joint width	4-25 mm
Pot life	up to approx. 15 min
Foot traffic	approx. 3 hours
Full load	approx. 24 hours

Technical requirements

The product conforms to PN-EN 15651-1:2013, PN-EN 15651-2:2013 and PN-EN 15651-3:2013.

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ATLAS ELASTIC SANITARY SILICONE (2020) EC Declaration of Performance No. 231/CPR EN 15651-1:2012 (PN-EN 15651-1:2013) Intended use: sealer for external use, sealer for internal use	
Reaction to fire	Class E
Water-tightness and gas-tightness: - Slip resistance - Volume change - Mechanical properties at constant elongation after water action - Mechanical properties after water action (+23°C) - Properties at elongation (transverse elongation module) for sealants used in cold climate (-30°C) - Mechanical properties at constant elongation for sealants used in cold climate (-30°C)	≤ 3 mm ≤ 45 % fulfils ≥ 25 % $\leq 0,9$ MPa NF – no damage
Durability	fulfils
EN 15651-2:2012 (PN-EN 15651-2:2013) Intended use: for glasswork	
Reaction to fire	Class E
Water-tightness and gas-tightness: - Slip resistance - Volume change - Adhesive/cohesive properties after exposure to warm water and artificial light - Elastic return - Properties at elongation (transverse elongation module) for sealants used in cold climate (-30°C) - Mechanical properties at constant elongation for sealants used in cold climate (-30°C)	≤ 40 % ≤ 3 mm NF no damage at 60% elongation ≥ 60 % at 60% elongation $\leq 0,9$ MPa NF – no damage
Durability	fulfils
EN 15651-3:2012 (PN-EN 15651-3:2013) Intended use: for non-structural use in sanitary rooms	
Reaction to fire	Class E
Water-tightness and gas-tightness: - Slip resistance - Volume change - Mechanical properties after water action (+23°C)	≤ 3 mm ≤ 40 % ≥ 25 %
Microbiological growth	1
Durability	fulfils

Product has been given the Hygienic Attest.

Caulking

Substrate preparation

The substrate should be dry, clean and free from dust, dirt and other contaminations adversely affecting the binding. Surfaces adjacent to places to be filled with the silicone should be protected with protective tape.

Caulking

Before application, remove the nozzle and cut the tip of the cartouche. Then install the nozzle and cut it at angle to the width corresponding with the width of the joint. Insert the cartouche into the caulk gun. Press the silicone out in a uniform way and with little excess into the joint, continuously, without gaps or empty spots. Shape the surface of the silicone within 10 - 15 minutes since application and finally smooth it with a putty knife or another appropriate tool soaked with water with a small addition of soap or dish washing liquid. It is recommended to shape the joints in a way enabling free water dribbling. After smoothing the joints, remove the tape protecting the surface of the caulked elements immediately.

Usage of the floor

Slight pedestrian traffic is possible already after 3 hours since caulking. The sealed surface is ready for full operation load after approx. 24 hours.

Coverage

The coverage depends on the width and depth of joints. Example coverage for the most common applications is presented in the table below illustrating the number of running meters of the joint obtained from a single cartouche.

Joint width [mm]	Joint depth [mm]	Coverage [m/280 ml]
4.0	6.0	approx. 11.0
6.0	6.0	approx. 7.5
8.0	6.0	approx. 5.5

Packaging

Plastic cartouches: 280 ml.

Important additional information

- The sanitary silicone must not be used for mending fish tanks, fixing mirrors, or caulking joints with Teflon, polyethylene (PE), polypropylene (PP), concrete, marble and lead, zinc, copper and iron.
- Excessively absorptive tiles may be subject to discolouration. Carry out test application on a small fragment (best on a waste piece of tile) and test cleaning in order to eliminate the tile discolouration. In case of discolouration, the tile should be impregnated with ATLAS IMPREGNATING SEALER FOR GROUTS AND TILES.
- The colour shown on the package front has a view character. Due to difference in technologies used in poligraphy and construction any differences between shades of a particular product colour and its simulation shown on the package does not constitute the basis for any claims against the editor as well as ATLAS. The particular colour shade depends on its texture homogeneity, conditions of use, substrate and ambient conditions as well as lighting conditions. The actual colour shade may to some extent differ from the one shown on the label. Use the silicone of the same manufacturing date and the same batch number for each individual surface to avoid eventual difference in colour.
- Silicones and grouts are manufactured on the basis of different types of binders, therefore differ in the degree of smoothness and gloss. These factors naturally influence the colour shade of each product type.
- In order to prevent the silicone from sticking to the bottom of the joint and ensure optimum filling between its side walls only, it is recommended to use polyurethane foam backer rods.
- All silicone stains must be removed immediately with ATLAS AGENT FOR REMOVAL OF SILICONE.
- Safety Data Sheet available on demand. Contains 4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) CAS 64359-81-5. Proceed in accordance with Safety Data Sheet.
- The product should be transported and stored in tightly sealed original and labelled packaging, in dry conditions. Protect against high temperatures (above 30°C) and freezing – product freezes and irreversibly loses its properties below 0°C. Protect against direct sunlight. Get familiar with the Safety Data Sheet contents. Storage rooms must be efficiently ventilated. Shelf life: 24 months from the date of manufacturing shown on the packaging.

The above information constitutes basic guidelines for the application of the product and does not release the user from the obligation of carrying out works according to engineering principles and OHS regulations.

*At the time of publication of this product data sheet all previous ones become void. An up-to-date technical product documentation is available at www.atlas.com.pl/en
Date of update: 2020-04-16*