



ATLAS SILTON S (4-25 mm) sanitary silicone

- for sealing shower units, wash basins, kitchen furniture
- flexible, resistant to atmospheric conditions
- forms unfavorable conditions for growth of mould and bacteria



Innovative technologies

ATLAS SILTON S is an one-component sealant based on polymers with acetate hardening system. Due to its characteristic it can be widely used in residential and industrial construction. The specially designed recipe ensures:

- resistance to harmful atmospheric conditions,
- high flexibility,
- resistance to wide range of temperature.

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

Properties

Permanently exible – retains high flexibility during the whole operation period, hardens without contraction; enables sealing tiles on stable wood-based panels and plasterboards, as well as on floor and wall heating systems.

Ensures aesthetic appearance and durable colour of the joints – it is resistant to UV rays, ageing processes and the influence of cleaning agents.

Forms ideally smooth surface.

Highly resistant to temperatures from -50°C up to +180°C.

Element of the tiling nishing system – in combination with corresponding in colour ATLAS grouts and finishing strips.

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

Use

Caulking tiles on vertical and horizontal surfaces, indoors and outdoors in:

- **residential single - and multi-family buildings, office buildings** – in living rooms, kitchens, kitchenettes, halls, antechambers, corridors, staircases, offices, bathrooms, showers, laundries, garages, on terraces, balconies, external stairs*, plinths*;

- **public access and commercial buildings** – in nurseries, kindergartens, schools, lecture halls, storage rooms, malls, stadiums, sacral buildings, hospitals (incl. rooms sterilization with UV lamps is required), pharmacies, diagnostic stations, car showrooms;

- **pools (adjacent rooms, e.g. dressing rooms, showers), saunas, jacuzzi, fountains;**

- **production and industrial buildings** – areas with no aggressive chemical load, storage rooms and warehouses, wash rooms;

Note. In sterile rooms in healthcare objects*, operating theatres*, laboratories*, garages, car washes, fire water reservoirs, industrial laundries and kitchens*, production areas with aggressive chemical load* as well as for ceramic cladding on façades, we recommend the use of ATLAS ARTIS silicone.

Caulking tiles on standard and deformable substrates:

- concrete, cement, anhydrite screed, etc., including those with water and electric heating;
- 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 lasterboards, incl. fireplace casing;
- floors made of wood, OSB, dry gypsum screed.

Note. In case of steel or plastic substrates, **we recommend the use of ATLAS ARTIS silicone.**

Surfaces exposed to low, medium and heavy traffic.

Surfaces subject to water and chemical loads: temporarily and frequently washed with water, detergents, machines and power wash.

Note. For surfaces temporarily or frequently washed with aggressive chemicals* or under chemical load*, **we recommend the use of ATLAS ARTIS silicone.**

Note. In case of mark "*" determination of chemical loads and confirmation of resistance needed.

Technical data

ATLAS SILTON S is a sealant 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	after approx. 3 hours
Full load	after approx. 24 hours

Technical requirements

The product conforms to PN-EN 15651-1:2013, PN-EN 15651-2:2013, PN-EN 15651-3:2013 standards. EC Declaration of Performance No. 035/CPR.

 1213		PN-EN 15651-1:2013 (EN 15651-1:2012) PN-EN 15651-2:2013 (EN 15651-2:2012) PN-EN 15651-3:2013 (EN 15651-3:2012)
Sealants for Façade Elements F-EXT-INT-CC (EN 15651-1) Sealants for Glazing G-CC (EN 15651-2) Sealants for Sanitary Joints S (class S1) (EN 15651-3)		
Conditioning: method A (acc. to ISO 8340)Substrate: glass (without priming), anodized aluminium (without priming)		
Reaction to fire	class E	
Durability	Meets requirements	
Microbiological growth	1	
Release/content of hazardous substances	See: Safety Data Sheet	
Watertightness and gastightness		
Volume change	≤ 3 mm	
Resistance to flow	≤ 40%	
Mechanical properties at constant elongation after water action.	NF	
Adhesion/cohesion properties after exposition to heat, water and artificial light	NF	
Mechanical properties after water action (+ 23°C)	≥ 25%	
Properties at elongation (transverse elongation module) for sealants used in cold climate (- 30 °C) s	≤ 0.9 MPa	
Mechanical properties at constant elongation for sealants used in cold climate (- 30 °C) s	NF	
Elastic return	≥ 60%	

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 [rm/280 ml]
4.0	6.0	approx. 11.0
6.0	6.0	approx. 7.5
8.0	6.0	approx. 5.5

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.
- 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.
- 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 petroleum spirits. After hardening they can be removed mechanically only.
- Keep out of reach of children. In case of any symptoms of concern get medical assistance immediately, show safety data sheet, packaging or label. Follow the Safety Data Sheet.
- The silicone has to be transported and stored in tightly sealed original packaging, in dry conditions and temperature between +5°C and +25°C. Shelf life in conditions as specified is 18 months from the production date shown on the packaging.

Packaging

Plastic cartouches: 280 ml

Cartons of 6 or 12 cartouches (depending on the colour).

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.

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