



ARDEX ST-N

Natural stone silicone

- Silicone sealant with fungicidal agent (neutral curing)
- Elastic sealing of movement, corner and connection joints in indoor and outdoor areas
- Grouting of natural stones such as marble, granite, quartzite, gneiss, Solnhofen slabs, etc.
- Grouting natural stone and tiles in swimming pools
- Easy to spray and smooth
- Good adhesive properties
- Resistant to weather conditions, UV rays and standard cleaning agents and disinfectants



Colours

anthracite, basalt, Jura beige, sand beige, silver grey, stone grey, white

Area of application

Indoor and outdoor. Walls and floors.

Elastic sealing of movement, corner and connection joints

- in bathrooms, showers and WCs
- in living areas with natural stone coverings
- on doors, windows and built-in elements
- in natural stone coverings on balconies, terraces and facades
- in natural stone and tile coverings in swimming pools
- suitable for use in food areas
- suitable for use in clean rooms.

Settings

ARDEX ST-N Natural Stone Silicone is a single-component, neutral-curing silicone sealant that is easy to spray and very smooth to finish. ARDEX ST-N is suitable for discolouration-free grouting of natural stones such as marble, granite, quartzite, gneiss, Solnhofen slabs, etc. in combination with ARDEX SP 10 Primer. Without primer on glass, enamel, ceramics, aluminium and LVT. Due to its high elasticity, expansion and compression movements of up to 20% of the joint width are compensated. After hardening, ARDEX ST-N is resistant to weathering, UV rays, standard household cleaners and disinfectants. The joint can be cleaned without any

problems. The fungicidal finish prevents fungal and mould growth.

Substrates

ARDEX ST-N adheres to glazed and unglazed tiles, enamel, glass, sanitary acrylic, bare and anodised aluminium, copper, brass, acrylic paints and thick-film glazes. Use suitable primers on concrete and mineral plasters, stainless steel, chrome and melamine resin panels.

Due to the wide range of possible influences during processing and application, the processor is always advised to carry out a test application.

The joint edges must be solid, load-bearing, dry and free of dust, dirt, grease, oil and paint coatings. Old joint sealant must be removed completely. Clean greasy joint edges and bathtub and shower tray edges with suitable cleaning agents, e.g. Lithofin silicone remover. If necessary, the adhesive surfaces must be carefully pre-treated with a suitable primer.

When applying to copper and brass, unobstructed air access is required!

Fill deeper joints with closed-cell polyethylene round cord. The backfill material must not be damaged during application. For flatter joints that cannot accommodate a round profile, cover the joint base with a polyethylene strip to prevent three-sided adhesion. The joint width should be at least 3 mm indoors and at least 5 mm outdoors. Bitumen, tar, oil or acrylic-impregnated backfill materials must not be used under any circumstances.

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Manufacturer with certified
QM/UM system according to
EN ISO 9001/14001

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We recommend priming natural stone coverings with ARDEX SP 10 Primer. As the name suggests, natural stones are taken from nature. They are not subject to any industrial manufacturing standards and their properties can vary greatly depending on their location and even depending on their location within a quarry.

To rule out these influences in connection with ARDEX ST-N, we generally recommend priming the joint edges with ARDEX SP 10 Primer. Please observe the off-touch time of approx. 60 minutes. Do not apply primer beyond the bonding edge, as this may cause staining, especially on natural stone. Like hardened smears of silicone sealant, these stains are very difficult or impossible to remove from natural stone surfaces.

To minimise contamination on the surface of the natural stone, always use fresh smoothing agent very sparingly and do not allow it to come into contact with the natural stone. If smoothing agent solution comes into contact with the natural stone surface, remove it immediately. We do not recommend the use of detergent solutions.

The joint edges of sandstone must always be cleaned with a brush before applying ARDEX SP 10 Primer.

Processing

Cut off the cartridge tip above the thread, screw on the nozzle and cut it at an angle according to the joint width. Insert the cartridge into the cartridge press. Inject ARDEX ST-N into the joints so that it bonds fully with the joint flanks to achieve good adhesion. For angular connections, inject as a triangular bevel. Before skin formation (approx. 6 minutes), smooth the sealant with a suitable tool moistened with ARDEX SG smoothing agent and remove the adhesive tape. After a few hours, the skin is difficult to damage. It is possible to work in sections, as fresh ARDEX ST-N adheres perfectly to already hardened material, provided the surface is free of dirt and dust.

The joint width in relation to the movement and field edging joints, Floor joints and wall/floor connection joints must be dimensioned so that the practical expansion capacity of 20% is not exceeded by the movements of the adjacent components (expansion, compression) (see IVD Data Sheet No. 3-1 + 3-2 + 14 + 31 + 35).

ARDEX ST-N Natural Stone Silicone must be applied at substrate temperatures above +5°C and below +35°C.

The skin formation time and curing speed refer to +23°C and a relative humidity of 50%. Higher temperatures and/or higher humidity shorten the curing time and increase the curing speed, while lower temperatures and/or lower humidity prolong the curing time and reduce the curing speed.

Swimming pools:

When used in swimming pools, mineral substrates such as concrete, plaster and mortar as well as natural stones must be primed with ARDEX SP 10 Primer, tiles, aluminium, chrome, stainless steel and similar substrates with ARDEX SP 20 Washing Primer for Silicone.

Regular water circulation and disinfection of the swimming pool water with chlorine are essential.

Alternative methods may also be used. However, sufficient chlorine disinfection must be ensured to effectively prevent mould growth. Alternative methods such as UV irradiation or

ozonisation do not have a disinfecting effect. This is essential to prevent mould growth.

ARDEX ST-N should be allowed to cure for at least 1–2 weeks before the pool is filled with water.

Please note

ARDEX ST-N Natural Stone Silicone is waterproof and prevents water from penetrating the joint. However, it cannot replace necessary waterproofing measures.

ARDEX ST-N cannot be painted over. ARDEX ST-N is suitable for edge joints in floor areas, but not for floor joints subject to heavy mechanical stress.

Despite the fungicidal properties, care must be taken in sanitary facilities to keep the joints clean using standard cleaning agents, as dirt and soap deposits can serve as a breeding ground for fungi and algae. It is advantageous to wipe the joints dry and clean them from time to time with a suitable disinfectant, depending on the level of exposure.

Elastic joints in accordance with the scope of the IVD data sheet require permanent maintenance and care. Maintenance joints are defined as all joints that are exposed to strong chemical and/or physical influences and whose sealants must be checked at regular intervals and replaced if necessary to prevent consequential damage. See also "Maintenance joint" in ÖNORM B3407. This also includes joint breaks due to screed cupping, excessive stress and changes caused by other external influences that exceed the permissible total deformation of the sealant. Additional loads occur when permanent and difficult-to-control chemical stresses (water, cleaning agents, dirt deposits) and/or constant mechanical stresses (cleaning, walking, driving) are to be expected. Defects caused by this do not justify complaints, as they cannot be prevented within the scope of the workmanship. Unless otherwise agreed, the joint shall be checked regularly by the client, operator or their representative. This does not constitute a maintenance contract or ongoing inspection by the contractor. Any renovation costs incurred shall be borne by the client ("costs incurred in any case").

Opened cartridges can be stored for several days if the nozzle opening is sealed with a sealant plug. The plug can be easily removed before further processing.

Fresh contamination can be removed immediately with thinner or ARDEX CW cleaning cloths if necessary. After hardening, this is only possible by mechanical scraping, provided that the substrate is suitable for this.

For painted substrates and plastic substrates, we recommend testing the adhesion and compatibility beforehand. If dispersion paints are used at the same time, make sure they are completely dry and ventilated, otherwise ARDEX ST-N may discolour.

If ARDEX ST-N comes into contact with bituminous substrates, discolouration or loss of adhesion may occur. Discolouration may occur when using cleaning agents and disinfectants that release iodine.

Not suitable for the following substrates: bitumen, butyl, EPDM, rubber, polyethylene, neoprene, tar, Teflon, elastic floor coverings, parquet floors and for bonding mirrors. ARDEX ST-N does not adhere to polyethylene and Teflon.

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The other substrates mentioned may cause discolouration of the sealant.

Natural stones and open-pored tiles and slabs should be masked with a suitable, smooth adhesive tape. Smoothing agents must not be allowed to get onto the surface of these slabs and dry there, as this may cause staining.

Note

The information in our safety data sheets must be observed.

For commercial use only!

Zusatzinformation

Handle with care during processing: avoid dust formation and release into the environment.

Dispose of the container and its contents in a sealed state in accordance with applicable local/regional/national/international regulations.

Technical data according to ARDEX quality standard

Consumption	Consumption 3 Running metre, per cartridge for 10 x 10 joints 12 Running metre, per cartridge for 5 x 5 joints 6 Running metres, per cartridge for 10 x 10 triangular joints 24 Running metres, per cartridge for 5 x 5 triangular joints	
Base	Silicone, neutral curing	
Consistency	Paste-like	
Joint width	Joint width 15 mm	
Processing temperature	+5°C to +35°C	
Resistance to temperature	-50°C to +150°C	
Specific weight	1.0 g/cm ³	
Practical stretch capacity approx.	20 % of joint width	
E-modulus	0.46 N/mm ² (EN ISO 8339)	
Shore A hardness approx.	24	

Application properties

Skin formation time approx.	6 Minute(s)	
Through hardening	Through hardening 2 mm	Time Per day
Application Ambient conditions	+23°C / 50% RH	

Product details

Labelling according to GHS/CLP	See relevant safety data sheet
Labelling according to ADR	See relevant safety data sheet
Packaging	Cartridge with 310 ml net, packed in packs of 20
Storage	Can be stored in cool, dry rooms for approx. 12 months in the original sealed container.

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EN 15651-1: 2012-12 EN 15651-3: 2012-12 EN 15651-4: 2012-12	
8044-8049 ARDEX ST-N EN 15651:F-EXT-INT 20LM, XS 1, PW-EXT-INT 20LM	
Sealant for non-structural use in joints for facades, sanitary areas and pedestrian walkways	
Type:	F-EXT-INT 20LM, XS 1, PW-EXT-INT 20LM
Conditioning:	method B
Substrate:	glass & mortar (M1)
Reaction to fire:	E
Release of chemicals dangerous to health and the environment:	evaluated
Water tightness and air tightness	
Resistance to flow:	≤ 3 mm
Loss of volume:	≤ 10 %
Tensile properties at maintained extension after water immersion:	passed (NF)
Tensile properties at maintained extension:	passed (NF)
Tear resistance:	passed (NF)
Microbiological growth:	0
Durability:	passed (NF)