

## NORDSIL AC

Acetic-reticulation silicone sealant

EN 1561-1/2/3: F-EXT-INT/G/S

ISO 11600: F-20LM/G-20LM

### Description

NORDSIL AC is a pure silicone single-component acetic-reticulation sealant, solvent-free, with low modulus of elasticity and high resistance to mould, yellowing, ageing and high and low temperatures (-60°C to +180°C).

NORDSIL AC is easy and clean to apply, and forms a perfectly waterproof seal which is resistant to immersion in water and the weather.

NORDSIL AC is available in 19 colours coordinated with our cement (COLORFILL FLEX 0-8) and epoxy (EPOSEAL W) mortars, as well as a transparent version.

### Field of application

NORDSIL AC is suited for sealing non-porous, non-oxidising surfaces such as ceramic, glass and anodized aluminium.

When BETONSEAL PRIMER adhesion agent is used, it can also be used on concrete, wood, painted surfaces and a number of plastics.

NORDSIL AC is used for:

- sealing between basins, sanitary ware, furnishings and ceramics in bathrooms, showers, kitchens and any area characterised by a high level of humidity and where resistance to detergents and rubbing are required.
- Sealing glass and windows.
- Sealing air ducts in A/C plant.
- Sealing skylights and portholes.
- Sealing glass greenhouses.
- Sealing tiled walls and floors, so long as they are not subject to heavy abrasion.
- Sealing and glueing in general.

### Application

NORDSIL AC is a thixotropic sealant, which is easy to extrude and can be applied to both vertical and horizontal surfaces.

#### Step 1: preparing the substrate

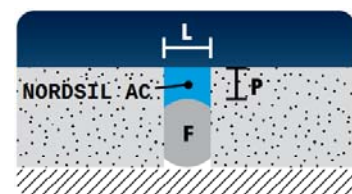
- The substrate must be compact, clean and dry, without loose fragments, and free of dust, oil, fat, wax, rust and old paint.

#### Step 2: delimiting the area of application

- The initial width of the joint must be estimated so that its maximum movement in continuous service is less than 1/4 of total width (at +20°C);
- The sealant must adhere only to the sides of the joint, not to its base.
- The ratio between the width (L) and depth (P) of the joint must be 1 to 2.
- For precisely profiled borders, we recommend masking the area of application with sticky tape, and removing it immediately after application.

#### Step 3: Applying the seal

- Cover the borders of the joint with masking tape.
- Insert the FILTENE FONDO GIUNTO (F) expanded polyethylene strip into the joint to limit the depth (P) of the seal.



- If using BETONSEAL PRIMER, apply it with a brush or pad to the affected parts, and leave it to dry (10-15 minutes for the solvent to evaporate) before applying NORDSIL AC.
- NORDSIL AC is packaged in 290 ml cartridges; cut the nozzle at 45° at the width required for the

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application, and extrude it to fill the joint, without air bubbles.

- Smooth off the surface with a damp tool (it is best to use soapy water) before a skin forms.
- Remove the masking tape immediately.

### Cleaning

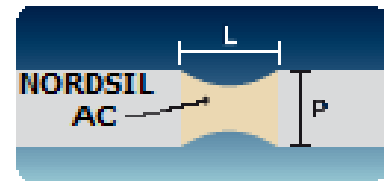
Before complete reticulation: to remove partially reticulated NORDSIL AC from tools and soiled surfaces, use a common solvent (white spirit, acetone, ethyl alcohol, nitro solvent)

After reticulation: remove mechanically

### Coverage

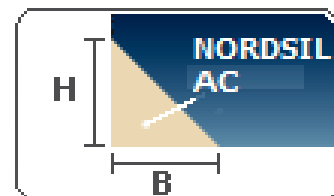
#### Sealing rectangular section joints

L (mm)	P (mm)	Coverage in metres of seal per cartridge (290 ml)
3-4	4-5	18
6	6	8
8	6	6
10	7	4
15	10	1.9
20	11	1.3
25	15	0.75



#### Sealing triangular section joints

B (mm)	H (mm)	Coverage in metres of seal per cartridge (290 ml)
3	3	64
5	5	23
10	10	5.8
15	15	2.5
20	20	1.4







### Precautions and special instructions

- Do not use NORDSIL AC for sealing surface which are sensitive to acid, such as chalky stone, mirrors or metals like copper and lead (NORDSIL AC releases a small amount of acetic acid during the reticulation process).
- Do not apply NORDSIL AC to strongly plastified or bitumen-based rubber or plastic surfaces, from which oils, plastifiers or solvents can migrate and compromise its adhesion, as well as changing its colour and strength as they penetrate it.
- Do not use NORDSIL AC for sealing aquariums or drinking water pipes.
- Wear protective gloves when using NORDSIL AC.
- Do not use in an enclosed area: good ventilation must be provided both while applying the product and while it is reticulating.
- Do not expose the sealant to thermal, mechanical or chemical stress before it has completely cured.
- For sealing heavy foot traffic floors, use a polyurethane epoxy sealant such as PU SEAL.
- NORDSIL AC cannot be painted over: first paint the surface, then seal it.
- NORDSIL AC reticulates in reaction with atmospheric humidity: low relative air humidity slows down the reticulation process, whereas temperature has a negligible effect.

### Technical data

IDENTIFYING DATA		
consistency	-	thixotropic paste



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type of sealant	-	polysiloxane	
type of reticulation	-	acetic	
vulcanisation	-	reaction with humidity	
apparent density, UNI 8995	g/cm <sup>3</sup>	1.01	
solid residue	%	100	
colour (see "NORDSIL AC – colour selection" or "Grouting colours")	-	19 colours + transparent	
EMICODE	-	EC1 PLUS (very low emission)	
<b>APPLICATION DATA (+20°C and 50% RH)</b>			
application temperature	°C	+5 / +40	
skin formation time	minutes	10-12	
workability (+20°C/50% RH)	minutes	10	
vulcanisation speed	mm/24 hours	2-3	
<b>FINAL PERFORMANCE, per EN 13888 class CG2WA</b>			
hardness	ISO 868	Shore A	16
elastic recovery	ISO 7389	%	> 90
deformation capacity		%	25
modulus of elasticity at 100% elongation	ISO 8340	N/mm <sup>2</sup>	0.38
failure elongation	ISO 8339	%	300
Temperature resistance		°C	-60 / +180
resistance	to water	-	excellent
	to atmospheric agents	-	excellent
	to ageing	-	excellent
	to soap and detergents	-	good
	to solvents	-	limited
class of sealant for indoor and outdoor facades	EN 15651-1	class	F-EXT-INT
Class of sealant for glazing	EN 15651-2	class	G
class of sealant for sanitary ware	EN 15651-3	class	S

Note: the test method is based on the indicated standard.

### Packages and storage

Packages	290 ml cartridges in 6 cartridge cartons
Keeping	24 months, in a dry place, +5 to +25°C. Storing the product at over 25°C for a long time reduces its shelf life.

### Legal notice

Any advice concerning the methods of use of our products reflects the current state of knowledge and does not imply any guarantee and/or responsibility as to the outcome of the application. Consequently, the customer must verify the product's suitability for the intended use and purposes by testing the product in advance. The website [www.nordresine.com](http://www.nordresine.com) contains the latest edition of this technical data sheet.

### Edition

02.10.2015

