

Torggler

Sealants and Adhesives

ACRYSIL PRO

Acrylic-silane sealant for sealing flexible joints.



- Good resistance to UV rays
- Paintable
- Operating elongation capacity of 15%



APPLICATION AREAS

Acrysil Prois suitable for sealing flexible joints in the following application:

- masonry and door and window frames
- roller blind boxes and walls
- pre-fabricated wall and ceiling panels
- through pipes and rendering
- for sealing cracks
- flexible sealing of wall panels.

MAXIMUM ATTAINABLE THICKNESSES

Sizing of the joint

Minimum width = 6 mm. For joint widths of less than 10 mm, the depth must be equal to the width of the joint and in any case not less than 6 mm. For joint widths between 10 mm and 20 mm the depth must be at least 10 mm. For widths larger than 20 mm the depth must be at least half of the width.

FEATURES

Acrysil Pro is a single-component sealant consisting of acrylic-silane polymers dispersed in a water base. When applied, the product hardens as the water base evaporates to leave a flexible, plastic mass with excellent resistance to ageing. Features excellent adherence to smooth surfaces (such as glass, aluminium etc...) Acrysil Pro becomes rainproof just a few minutes after application. It is therefore ideal for outdoor applications where weather conditions (immediate likelihood of rain) make it difficult to use other sealants. It is easy to apply, does not drip and can be smoothed off quickly. The application tools can be washed with water. It is ideal for sealing indoor and outdoor joints with a maximum expansion of 18%. Acrysil Pro is classified as a non-structural sealant for internal and external facade components (type F-EXT/INT), in accordance with E 15651-1. Acrysil Pro is defined as Class 12.5E in the ISO 11600 Classification.

WARNINGS

Acrysil Pro passes the DIN 52461 rain strength test (immediate) 15 minutes after application. However, the product should not be applied to horizontal joints outdoors where there is a risk of water stagnating. Sealant which has not completely hardened will be damaged by frost.

INSTRUCTIONS FOR USE

1. The sides of the joint must be solid, clean and grease-free. Acrysil Pro does not require primer. For porous joints and during the summer months it is advisable to wet the sides of the joint. Deep expansion joints must be plugged with rigid pre-forms shaped foam elements before sealing.
2. Apply adhesive tape along the sides of the joint.
3. Insert the foil bag in a mechanical or a pneumatic gun, open it, screw on the spout and cut off the tip to obtain a sufficient aperture.
4. Extrude an abundant quantity of sealant.
5. Smooth off with a damp paint scraper within 5 minutes of application, exerting enough pressure to remove any air bubbles.

Cleaning of tools

Tool used with Acrysil Pro are easy to clean with water while the product is still soft. Hardened product should only be removed by mechanical means or by using organic solvents (acetone, toluene).

TECHNICAL SPECIFICATIONS

PARAMETER AND TEST METHOD	VALUE
Base	1,50 g/ml
Density (ISO 1183-1/B)	1,50 g/ml
Application temperature	from +5 °C to +40 °C
Skin-over time (MIT 45*)	approx. 15 minutes
Extrusion speed (MIT 30)	260 g
Complete hardening (10×10 mm joint at 20 °C – 50% U.R.)	after approx. 5 days
Resistance to rain	after 15 minutes
Operating temperature	from -25 °C to +85 °C
Surface hardness	Shore A/max: 45
Surface hardness	Shore A/15: 15
Volume change	24%
Mass variation	16%
Drip resistance	0%
Tensile strength (DIN 53504 – Punch S3)	250%
Tensile strength at break (DIN 53504 – Punch S3)	1,0 N/mm ²
Modulus of elasticity at 100% (DIN 53504 – Punch S3)	0,9 N/mm ²

Extension to break (ISO 8339/A – Mortar support – M1)	150%
Tensile extension to break (ISO 8339/A – Mortar support – M1)	0,17 N/mm ²
Modulus of elasticity at 100% (ISO 8339/A – Mortar support – M1)	0,20 N/mm ²
Elastic recovery (ISO 7389/B – SMortar support– M1)	60 %
Maximum operating elongation (ISO 11600)	18 %
Resistance to acids	poor
Resistance to bases	poor
Odour after cross-linking	odourless

* Torggler Internal Methods (MIT) are available on request.

COVERAGE GUIDE TABLE		
JOINT WIDTH X DEPTH (MM)	QUANTITY USED PER LINEAR METRE	LINEAR METRES COVERED WITH ONE CARTRIDGE
6x6	36 ml	16,7
8x8	64 ml	9,4
10x10	100 ml	6,0
15x10	150 ml	4,0
20x10	200 ml	3,0

Color	Grey, White
Packaging	cartridge, foil bag
Packaging size	20x600 ml, 24x310 ml
Pallet	36 cardboards, 64 cardboards

STORAGE

Unopened in its original packaging and stored at temperatures between +5 °C and +30 °C Acrysil Pro will keep for 24 months.

CERTIFICATIONS

The declarations of performance (DoP) are available on request.



Torggler S.r.l., Via Prati Nuovi 9, I – 39020 Marleno (BZ) DoP n° 0065/14 EN 15651-1:2012 NB n° 0432		
EN 15651-1:2012: Sealants for façade for exterior/interior application (F-EXT/INT 12,5 E)		
Reaction to fire		NPD
Release of chemical dangerous to the environment and health		NPD
Durability		Pass
Water and air tightness	Resistance to flow	≤ 5 mm
	Loss of volume	≤ 45%
	Tensile properties at maintained extension after water immersion at 23°C	NF
	Tensile properties at maintained extension at 23°C	NF
	Tensile properties (secant modulus) at 23°C	≤ 0,4 MPa
EN 15651-1:2012		

LEGEND FOR CLASSIFICATION ACCORDING TO EN 15651

F	Sealant for non-structural joints for the building trade, on facades. (F = facade elements)
INT	Sealant for internal use only.
EXT-INT	Sealant for internal and external use.
CC	Sealant tested for cold climates. (CC = cold climate - testing done at -30 °C)
G	Sealant for non-structural joints on glazing and door and window frames. (G = glazing)
S	Sealant for non-structural joints in bathroom installations. (S = sanitary joints)
XS	Sealant for joints in bathroom installations with improved performance.
PW	Sealant for non-structural joints on pedestrian walkways. (PW = pedestrian walkways)

The information contained in this document is reported on the basis of our experience and knowledge; therefore, any recommendations and suggestions made are without any guarantee and must be verified before using the product by those who intend to use it, who assume all responsibility that may result from its use since the conditions of use are not under our direct control. In case of doubt, it is always advisable to make preliminary tests and/or ask for the intervention of our technicians. Torggler reserves the right to modify, replace and/or delete the items, as well as to change the product data in this document without prior notice; in this case the indications given here may no longer be valid. Always refer to the latest version of the data sheet, available at www.torggler.com. Version 22.07.2021.