BUILDING TRUST

PRODUCT DATA SHEET

Sikacryl®-110

UNIVERSAL ACRYLIC SEALANT FOR INTERIOR USE

DESCRIPTION

Sikacryl®-110 is a 1-component acrylic dispersion sealant for indoor crack and joint filling.

USES

Sikacryl®-110 is designed for interior crack and joint filling with low movement. Sikacryl®-110 is also suitable for duct sealing in HVAC applications.
Suitable for use in hot and tropical climatic conditions.

CHARACTERISTICS / ADVANTAGES

- Good application properties
- Movement cabability of ±7.5 %
- Mildew and fungus resistant
- Over-paintable
- Good adhesion on various substrates
- For interior use

SUSTAINABILITY

Sikacryl®-110 conforms to LEED® EQc 4.1
- VOC content <47 g/l (without water), US EPA Method 24

PRODUCT INFORMATION

Composition	1-Component acrylic dispersion	
Packaging	280 ml cartridge, 12 cartridges per box	
Colour	White and grey	
Shelf life	Sikacryl®-110 has a shelf life of 12 months from the date of production, if it is stored properly in undamaged, original, sealed packaging, and if the storage conditions are met.	
Storage conditions	Sikacryl®-110 shall be stored in dry conditions, protected from direct sunlightand frost, at temperatures between +5 °C and +25 °C.	
Density	~1.65 kg/l	(ISO 1183-1)
Volatile organic compound (VOC) content	< 47 g/l (without water)	(US EPA Method 24)

TECHNICAL INFORMATION

Shore A Hardness	~28 (21 days)	(ASTM C 661)
Tensile Strength	~1.15 N/mm^2	(ASTM D-412-98a)
Elongation at Break	~120 %	(ASTM D-412-98a)
Movement Capability	±7.5 % (only for cracks and low-movement joints)	(ASTM C-719)

Service Temperature	−20 °C min. / +70 °C max. (dry)
Joint Design	The joint width must be designed to suit the joint movement required and the movement capability of the sealant. The joint width shall be ≥ 10 mm and ≤ 15 mm. A width to depth ratio of 2:1 must be maintained (for exceptions see table below).

Min. joint width [mm]	Min. joint depth [mm]
10	10
15	10

For larger joints please contact our Technical Department.

APPLICATION INFORMATION

Consumption

Length of joint [m] = 280 ml / (Joint width [mm] x Joint depth [mm])

Joint length [m] per 280 ml	Joint width [mm]	Joint depth [mm]
2.8	10	10
1.9	15	10

Triangular joints (where the sides of the joint meet at a right angle) shall have sides ≥7 mm.

Sag Flow	Non sag	(ASTM C-639-01)
Ambient Air Temperature	+5 °C min. / +45 °C max., min. 3 °C above dew point temperature	
Substrate Temperature	+5 °C min. / +45 °C max.	
Curing Rate	~4 mm/24 hours (23 °C / 50 % r.h.)	(CQP 049-2)
Skinning time	~10 min	(CQP 019-1)
Tack free time	~35 min	(CQP019-1)

APPLICATION INSTRUCTIONS

For the application of Sikacryl®-110 all standard construction guidelines apply.

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Sikacryl®-110 adheres without primers and/or activators.

For porous substrates, e.g. concrete, plaster and/or wood, Sikacryl®-110 can be dissolved in water (1:1 to 1:5 ratio) and be used as a primer if necessary.
On plastics and paints, adhesion tests must be performed prior to application. Iron and steel must be protected with an anti-corrosion primer.

APPLICATION METHOD / TOOLS

Sikacryl®-110 is supplied ready to use.
After the necessary substrate preparation, insert a cartridge into the sealant gun and extrude Sikacryl®-110 into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikacryl®-110 sealant must be firmly tooled against the joint sides to ensure adequate adhesion.
It is recommended to use masking tape where exact joint lines or neat lines are required. Remove the tape within the skin time. Do not use tooling products containing solvents. Water can be used if wet-tooling is required.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately after use with water. Once cured, residual material can only be removed mechanically.

FURTHER INFORMATION

- Safety Data Sheet
- Pre-treatment Chart Sealing and Bonding

IMPORTANT CONSIDERATIONS

- Sikacryl®-110 can be overpainted. However, paints must first be tested to ensure compatibility by carrying out preliminary trials (e.g. according to ISO technical paper: Paintability and paint compatibility of Sealants).
- Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour white). However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Application during high temperature changes is not recommended (movement during curing).
- Do not use Sikacryl®-110 as glass sealer, in floor joints, in sanitary joints, on marble, natural stones, and civil engineering.
- Do not use Sikacryl®-110 for joints under water pressure or for permanent water immersion.
- Do not use Sikacryl®-110 on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack the sealant.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika Services AG
Tüffenwies 16
8048 Zürich
Tel: +41 58 436 4040
www.sika.com