

PRODUCT DATA SHEET

Sikacryl®-620 Fire

Fire rated sealant for linear joints and penetrations



DESCRIPTION

Sikacryl®-620 Fire is a fire rated 1-component, water-based intumescent sealant. Suitable for use in hot and tropical climatic conditions.

USES

Sikacryl®-620 Fire is designed for fire rated connection joints and penetration seals on porous and non-porous substrates.

CHARACTERISTICS / ADVANTAGES

- Up to 2 hours fire resistance according to UL 2079
- Up to 5 hours fire resistance according to EN 1366-4
- Up to 2 hours fire resistance according to EN 1366-3
- Good workability
- Good adhesion to a wide range of substrates
- Water-based
- Over-paintable

SUSTAINABILITY

- Sikacryl®-620 Fire conforms to LEED v4 EQc 2: Low-Emitting Materials
- Sikacryl®-620 Fire is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL) certificate No. CL18020589

APPROVALS / CERTIFICATES

- Dubai Civil Defence (DCD), Certificate No.: CF 5463
- UL 2079
- EN 15651-1 F INT
- ISO 11600 12.5 P
- EN 1366-3 assessment report
- EN 1366-4 assessment report
- ETAG 026 assessment report
- EN 13501-2 classification report
- EN 140-3 test report
- EN 13501-1 class B-s1-d0

PRODUCT INFORMATION

Composition	1-Component acrylic dispersion
Packaging	600 mL foil pack, 12 foil packs per box 300 mL cartridge, 12 cartridges per box
Colour	White, grey
Shelf life	Sikacryl®-620 Fire has a shelf life of 18 months from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met.
Storage conditions	Sikacryl®-620 Fire shall be stored in dry conditions, where it is protected from direct sunlight and frost, at temperatures between +5 °C and +25 °C.
Density	~1.65 kg/l (ISO 1183-1)

TECHNICAL INFORMATION

Shore A hardness	~33 (28 d)	(ISO 868)
Movement capability	12.5 %	(ISO 11600)
Service temperature	-25 °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 ≤ 35 mm. The joint depth shall be ≤ 15 mm. A width to depth ratio of 2 : 1 must be maintained. All joints must be correctly designed and dimensioned in accordance with the relevant standards, before their construction. For larger joints please contact our Technical Department.	

APPLICATION INFORMATION

Consumption	Joint length [m] per 600 mL foil pack	Joint width [mm]	Joint depth [mm]
	6	10	10
	4	15	10
	3	20	10
	2	25	12
	1.3	30	15

Backing material	Use polyethylene foam backing rods.		
Sag flow	~1 mm (20 mm profile, 50 °C)	(ISO 7390)	
Ambient air temperature	+5 °C min. / +30 °C max. (min. 3 °C above dew point temperature)		
Substrate temperature	+5 °C min. / +30 °C max.		
Curing rate	~2 mm/24 h (23 °C / 50 % r.h.)	(CQP 049-2)	
Skimming time	~15 min (23 °C / 50 % r.h.)	(CPQ 019-1)	

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Sikacryl®-620 Fire adheres without primers and/or activators. Iron and steel must be protected with an anti-corrosion primer.

APPLICATION METHOD / TOOLS

Sikacryl®-620 Fire is supplied ready to use. After the necessary substrate preparation, insert a suitable backing rod to the required depth and apply any primer if necessary. Insert a foil pack or cartridge into the sealant gun and extrude Sikacryl®-620 Fire into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikacryl®-620 Fire 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 and/or Sika® TopClean T. Once cured, residual material can only be removed mechanically.

FURTHER INFORMATION

- Safety Data Sheet (SDS)
- EN 13501-2 classification report
- ETAG 026 assessment report
- Brochure Sika Fire Protection solutions

IMPORTANT CONSIDERATIONS

- Sikacryl®-620 Fire can be overpainted. However, paints must first be tested to ensure compatibility by carrying out preliminary trials (example according to ISO technical paper: Paintability and paint compatibility of Sealants).
- Application during high temperature changes is not recommended (movements during the curing).
- Do not use Sikacryl®-620 Fire as glass sealer, for floor joints, sanitary joints, on natural stone, or for civil engineering applications.
- Do not use Sikacryl®-620 Fire on bituminous substrates, natural rubber, EPDM rubber or on any building materials which might bleed oils, plasticizers or solvents that could attack the sealant.
- Colour variations may occur due to exposure to chemicals, high temperatures and/or UV-radiation (especially with the colour shade white). However, a change in colour is purely of aesthetic nature and does not adversely influence the technical performance or durability of the product.
- Do not use Sikacryl®-620 Fire for joints under water pressure or for permanent water immersion.

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.

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ISO 9001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd,
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ISO 14001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
18001.

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