

PRODUCT DATA SHEET

Sikacryl®-620 Fire

Fire resistant acrylic sealant for linear joints in walls and floors

DESCRIPTION

Sikacryl®-620 Fire is a fire resistant, 1 part, water-based sealant.

USES

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

CHARACTERISTICS / ADVANTAGES

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

ENVIRONMENTAL INFORMATION

- VOC emission classification GEV-Emicode EC1^{PLUS}, license number 7145/20.10.00
- Conformity with LEED v4 EQc 2: Low-Emitting Materials

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance based on European Technical Assessment ETA 20/1115. ETA issued on the basis of EAD 350141-00-1106:2017 – Fire Stopping and Fire Sealing Products – Linear Joint and Gap Seals.
- Classification report reaction to fire EN 13501-1, Sikacryl®-620 Fire, Exova, Report No. 356703
- Classification report resistance to fire EN 13501-2, Sikacryl®-620 Fire, Exova, Report No. 343247B
- Fire testing BS 476-20, Sikacryl®-620 Fire, Exova, Report No. 344546A
- Sound transmission ISO 10140-2, Sikacryl®-620 Fire, SRL, Report No. C/22765/T03
- UL Product iQ, XHBN.HW-S-0113 - Joint Systems, System No. HW-S-0113
- IMO Certificate MED D, Sikacryl®-620 Fire, DNV GL SE, No. MEDD00001VA
- IMO Certificate MED B, Sikacryl®-620 Fire, DNV GL SE, No. MEDB00005C6

PRODUCT INFORMATION

Chemical Base	1 part acrylic dispersion
Packaging	600 ml foil pack, 12 foil packs per box 300 ml cartridge, 12 cartridges per box
Shelf Life	Sikacryl®-620 Fire has a shelf life of 24 months from the date of production, if 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.
Colour	White, grey

Density ~1.65 kg/l (ISO 1183-1)

TECHNICAL INFORMATION

Service Temperature	-25 °C min. / +70 °C max. (dry)
Joint Design	Refer to 'Approvals / Certificates', Sika Passive Fire Protection Handbook or contact Sika Technical Services for specific information.

APPLICATION INFORMATION

Sag Flow	~1 mm (20 mm profile, 50 °C)	(ISO 7390)
Ambient Air Temperature	+5 °C min. / +30 °C max.	
Substrate Temperature	+5 °C min. / +30 °C max. min. 3 °C above dew point temperature	
Backing Material	Refer to 'Approvals / Certificates', Sika Passive Fire Protection Handbook or contact Sika Technical Services for specific information.	
Curing Rate	~2 mm / 24 hours (23 °C / 50 % r.h.)	(CQP 049-2)
Skin Time	~15 min (23 °C / 50 % r.h.)	(CPQ 019-1)

BASIS OF PRODUCT DATA

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

FURTHER DOCUMENTS

- Sika Method Statement: Sikacryl®-620 Fire
- Sika Passive Fire Protection Handbook
- Brochure Sika Fire Protection Solutions

LIMITATIONS

- Sikacryl®-620 Fire 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 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.
- 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.
- Do not use Sikacryl®-620 Fire for joints under water pressure or for permanent water immersion.

ECOLOGY

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.

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.

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. 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 TOOLS

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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