

PRODUCT DATA SHEET

Sikacryl[®]-20 FC

PROFESSIONAL ACRYLIC SEALANT

PRODUCT DESCRIPTION

Sikacryl[®]-20 FC is a 1-component, non-sag, fast drying professional acrylic sealant.

USES

Sikacryl[®]-20 FC is designed for sealing of indoor connection joints with low movement in substrates such as concrete, aerated concrete, plaster, fibre cement, brick, plasterboards, aluminium, PVC and wood.

Sikacryl[®]-20 FC is designed for indoor connection joints around windows, window sills, doors, PVC pipes, dry participation walls and ceiling.

Sikacryl[®]-20 FC is also designed for interior crack filling (for cracks not under permanent water immersion).

CHARACTERISTICS / ADVANTAGES

- Excellent application properties
- Solvent-free
- Over-paintable
- Can be used as an acoustic sealant (STC = 63)
- Adhesion on many substrates
- For interior use
- Fast drying
- Very low emissions

APPROVALS / STANDARDS

- Meets the physical requirements specified in ASTM C834.
- Sound Transmission Class (STC) = 63 (ASTM E-90)
- Meets the requirements of ASTM C919 "Standard Practice for Use of Sealants in Acoustical Applications"

PRODUCT INFORMATION

Chemical Base	1-Component acrylic dispersion		
Packaging	5 gallon pail		
Color	White		
Shelf Life	1 year in original unopened packaging.		
Storage Conditions	+41°F (+5°C) to +77°F (+25°C) The product must be stored in original, unopened and undamaged sealed packaging in dry conditions.		
Density	100 lbs/ft ³ (1.60 kg/l)		(ISO 1183-1)
Volatile organic compound (VOC) content	1.5 g/L		
Solid Content	<u>Volume Shrinkage</u>	<u>46%</u>	<u>ASTM C 733</u>

TECHNICAL INFORMATION

Shore A Hardness	45 approx. (after 28 days)	(ISO 868)										
Tensile Strength	81 psi	ASTM D 412 Method A										
Tensile Modulus of Elasticity	79 psi	ASTM D 412 Method A										
Elongation at Maximum Tensile Stress	322%	ASTM D 412 Method A										
Elastic Recovery	<table border="1"> <tr> <td>Recovery</td> <td>95%</td> </tr> <tr> <td>Adhesive Failure to Glass</td> <td>0%</td> </tr> <tr> <td>Adhesive Failure to Aluminum</td> <td>0%</td> </tr> </table>	Recovery	95%	Adhesive Failure to Glass	0%	Adhesive Failure to Aluminum	0%	ASTM C 736				
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Movement Capability	± 10% (only for cracks and non-movement joints)											
Resistance to Weathering	<table border="1"> <tr> <td>Washout</td> <td>PASS</td> </tr> <tr> <td>Slump</td> <td>PASS</td> </tr> <tr> <td>Cracking</td> <td>PASS</td> </tr> <tr> <td>Discoloration</td> <td>PASS</td> </tr> <tr> <td>Adhesion Loss (%)</td> <td>≤ 25</td> </tr> </table>	Washout	PASS	Slump	PASS	Cracking	PASS	Discoloration	PASS	Adhesion Loss (%)	≤ 25	ASTM C 732 / ASTM C 1442
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Colour Stability	<table border="1"> <tr> <td colspan="2">Stain Index (dimensionless)</td> </tr> <tr> <td>Width of stain</td> <td>3/4 in.</td> </tr> <tr> <td>Number of papers</td> <td>1</td> </tr> <tr> <td>Stain index</td> <td>1</td> </tr> </table>	Stain Index (dimensionless)		Width of stain	3/4 in.	Number of papers	1	Stain index	1	ASTM D 2203		
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Width of stain	3/4 in.											
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Stain index	1											
Service Temperature	-13°F (-25°C) to 158°F (70°C) Dry											
Joint Design	<p>The joint dimensions must be designed to suit the movement capability of the sealant. The joint width must be ≥ 1/4" (6 mm) and ≤ 3/4" (19 mm). A width to depth ratio of 2:1 must be maintained.</p> <p>For larger joints, contact Sika Technical Services for additional information. Triangular joint profiles must have sides for bonding ≥ 1/4" (7 mm).</p>											
Extrusion Rate	7.3 g/s	ASTM C 1183 Procedure B										

APPLICATION INFORMATION

Coverage	1 gallon: Yield in Linear feet			
	Width/Depth	1/4"	3/8"	1/2"
	1/4"	307.9		
	3/8"	205.3	136.8	
	1/2"	153.9	102.6	77.0
	3/4"	102.6	38.4	51.3
	1"			38.5
	1.25"			30.8
	1.5"			25.7

Sag Flow	Sag Flow	< 3/64 in. (1 mm) at 73 °F (23 °C)	(ISO 7390)
	Slump	~0.00 in.	ASTM D2202 / ASTM C 834
Ambient Air Temperature	41 °F (5 °C) to 86 °F (30 °C), min. 37 °F (3 °C) above dew point temperature		
Substrate Temperature	41 °F (5 °C) to 86 °F (30 °C)		
Curing Rate	5/32 in. (4 mm) / 24 hours approx. 73 °F (23 °C) / 50% R.H.		(CQP 049-2)
Skin Time	6 minutes approx. 73 °F (23 °C) / 50% R.H.		(CQP 019-1)
Tack Free Time	Pass No material adhered to plastic strip	ASTM D 2377 Type C; Time = 24h	

APPLICATION INSTRUCTIONS

For the application of Sikacryl®-20 FC 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®-20 FC adheres without primers and/or activators. For porous substrates, e.g. concrete, plaster and/or wood, Sikacryl®-20 FC 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®-20 FC is supplied ready to use. After the necessary substrate preparation, extrude Sikacryl®-20 FC into the joint making sure that it comes into full contact with the sides of the joint and avoids any air entrapment. Sikacryl®-20 FC 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.

AVAILABILITY/WARRANTY

- Safety Data Sheet

LIMITATIONS

- Sikacryl®-20 FC can be overpainted. However, paints must first be tested to ensure compatibility by carrying out preliminary trials.
- Color 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 (movements during the curing).
- Do not use Sikacryl®-20 FC as glass sealer, in floor joints, in sanitary joints, on marble, natural stones, and civil engineering.
- Do not use Sikacryl®-20 FC for joints under water pressure or for permanent water immersion.
- Do not use Sikacryl®-20 FC 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

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, 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 DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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