

PRODUCT DATA SHEET

SikaInject[®]-471

2-C Low-Viscosity Epoxy Resin

DESCRIPTION

SikaInject[®]-471 is a 2-component, solvent free, low-viscosity epoxy resin for structural crack repair.

USES

SikaInject[®]-471 may only be used by experienced professionals.

Suitable for sealing of structures against ingress of corrosive fluids and gases.

Suitable for structural "static" crack repair from 0.1 mm to 9 mm in:

- Columns
- Bridge decks
- Floors
- Tunnels
- Basements
- Beams
- Underpasses

FEATURES

- Solvent free
- Low viscosity, deep penetration into fine hairline cracks and cavities
- Excellent adhesion to dry surfaces
- Enables structural repair
- High compressive strength
- High chemical resistance
- Resists hydrostatic pressure and blocks penetration of deleterious substances (once fully cured)
- Can be used as a fluid-grout up to 9 mm thickness

TECHNICAL INFORMATION

Compressive strength	~70 N/mm ² (7 days)	(ASTM D695)
Flexural-strength	~70 N/mm ² (7 days)	(DIN EN ISO 178)
Tensile strength	~25 N/mm ² (7 days)	(ASTM D638)
Chemical resistance	SikaInject [®] -471 (in fully cured state) has excellent resistance to most aqueous substances and liquids, these include: <ul style="list-style-type: none"> ▪ Sea water ▪ Brackish water ▪ Effluent and raw sewage ▪ Acids of low concentration ▪ Alkalis ▪ Oils (mineral and organic) 	
Shear adhesion strength	~30 N/mm ² (14 days) (Slant Shear Bond Strength)	(ASTM C882:1990)

PRODUCT INFORMATION

Packaging	0.852 kg (base resin) 0.213 kg (reactor)
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +5 °C and +35 °C
Colour	water-clear
Density	~1.05 kg/l (ASTM D1475)
Viscosity	~200 mPa.s (ASTM D2196)

APPLICATION INFORMATION

Pot Life	~50 min (25°C) ~30 min (40°C)	(ASTM D2471)
----------	----------------------------------	--------------

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

Mix components quickly and thoroughly. Inject the mixture through a 1-C injection pump and injection packers for structural crack repair. Pour into cracks for surface sealing. Apply within potlife / observe application temperature.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma-Cleaner immediately after use. Hardened / cured material can only be mechanically removed.

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 exact product data and uses.

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 Gulf B.S.C. (c)

Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for Manufacturing LLC
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 12 692 7079
Email: info@sa.sika.com
Web: gcc.sika.com

Sika LLC - Oman

Master Builders Solutions LLC (part of Sika)
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
-Sika UAE LLC
-Sika International Chemicals LLC
-Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
-Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
-Sika MB Construction Chemicals LLC
-Sika Construction Chemicals for Manufacturing LLC
-Master Builders Solutions LLC

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 ISO 45001.



Product Data Sheet

Sikalnject®-471
November 2024, Version 01.03
020707030010000104

