

Sikafloor®-619

Low viscosity epoxy impregnation

Construction

Product Description

Sikafloor®-619 is a 2-part very low viscosity, solvent containing epoxy impregnation material. When brushed or rolled over cured concrete, Sikafloor®-619 impregnates the concrete to provide a surface with increased hardness and resistance to moisture penetration.

Uses

Sikafloor®-619 can be used as a sealer and surface hardener for cementitious materials in:

- Plant rooms
- Warehouse and workshop floors
- Structures exposed to extreme weather conditions
- Marine structures

Characteristics / Advantages

- Sikafloor®-619 is easy to mix – at 1 : 1 by volume ratio between components
- Low viscosity for deep penetration (viscosity close to that of water)
- Fast application
- Reduces dusting and thus, easier cleaning of slabs
- Increased resistance to abrasion, de-icing salts and mild chemicals
- Enhanced resistance to oils, gasoline, kerosene, alkalis, acids, organic and inorganic salts and staining from spillage.
- Increased impermeability of concrete reduces rate of penetration and waterborne contaminants such as chlorides
- Sikafloor®-619 is not a coating, therefore nothing to peel or flake off

Product Data

Form

Appearance / Colours Clear to Pale Straw

Packaging 25 kg sets

Storage

Storage Conditions / Shelf Life 12 months from the date of production if stored properly in original, unopened and undamaged packaging in dry conditions at temperatures between +5°C and +30°C.



Technical Data

Chemical Base	Epoxy
Specific Gravity	0.93
Viscosity (at 25°C)	~ 25 cps
Flash Point	25°C to 28°C

System Information

Application Details

Consumption	■ 3 – 6 m ² per litre per coat	(typical concrete)
	■ 7 – 8 m ² per litre per coat	(very dense concrete)
	■ 2 – 3 coat required	

Substrate Quality	The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . The surface must be clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc. If in doubt, apply a test area first.
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Application Instructions

Mixing	Mixing Ratio: Parts A : B = 1 : 1 by volume The resin (Part A) and the hardener (Part B) are mixed in equal proportions by volume. When required for application, the total contents should be poured into a bucket and thoroughly mixed using a low speed (500 rpm) mixer in a well ventilated area, to prevent solvent from build-up, until it is homogeneous. Leave for one hour before using.
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Application Method / Tools	<i>Horizontal Surface</i> Sikafloor®-619 should be poured on to the prepared surface and spread evenly with a soft brush, avoiding the formation of puddles. As much material should be applied as the surface will absorb without any excess material on the surface. The correct application rate will depend very much upon the porosity of the concrete and should be determined on a small test area prior to large scale application. A second coat should be similarly applied 12 – 24 hours after application of the first coat. A third coat may be necessary to give the required in-surface seal on porous substrates but on typical good quality dense concrete, two coats will normally be adequate. It is important that the area is well ventilated to allow sufficient evaporation of the solvent, particularly at low application temperatures. <i>Vertical Surface</i> Sikafloor®-619 can be brush or rolled applied. In well ventilated areas, Sikafloor®-619 can be sprayed using a low pressure spray gun starting from the top and progressively working down the application. Wear protective gear when carrying out spray operations.
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Cleaning of Tools	Clean all tools and application equipment with thinners immediately after use. Hardened / cured material can only be mechanically removed.
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Potlife (at 25°C)	~ 8 hours
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Notes on Application / Limitations

- Do not thin Sikafloor®-619.
- Application at temperatures below 5°C is not recommended.
- Sikafloor®-619 is flammable and contains volatile solvents. It is essential that during application, the area is well ventilated to prevent the build-up of solvent fumes.
- Paintwork and plastic fittings should be protected.
- Finished surface is slightly glossy.
- Relative Humidity at time of application must not exceed 90%.
- Deteriorating, disintegrating or poor concrete surface cannot be made good with this application alone.

Curing Details

Curing Time (at 25°C)		
	■ Initial (tack free)	2 – 6 hours
	■ Foot Traffic	24 hours
	■ Light Vehicle Traffic	3 days
	■ Final	5 – 7 days

Value Base

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet (available on request) 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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