

PRODUCT DATA SHEET

Sikagard-106 Primer

Two-component water-based epoxy primer

PRODUCT DESCRIPTION

Sikagard-106 Primer is a two-component, waterborne epoxy resin.

It is used as a primer for Sikagard® DW and Sikagard® STEP systems. It can be applied to concrete and hydraulic mortars.

USES

Primer for concrete and hydraulic mortar substrates in the following structures :

- Aerial, semi-buried and buried tanks
- Drinking water tanks
- Wastewater treatment plant tanks
- Raw water tanks
- Aqueducts
- Fountains
- Water tanks
- Retention basins.

PRODUCT INFORMATION

Chemical Base	water-based epoxy resin
Packaging	8 kg kit (A+B) <ul style="list-style-type: none">▪ Component A: 1.7 kg metal bucket▪ Component B: 6.3 kg metal bucket
Appearance / Colour	Milky white (fresh mixture)
Shelf Life	12 months from the date of manufacture, in original unopened packages.
Storage Conditions	Store in original, unopened packaging, away from moisture and frost, at temperatures between +5°C and +35°C.
Density	~ 1.05 (mixture) <ul style="list-style-type: none">▪ Component A: 1.10▪ Component B: 1.04
Solid Content	39%

APPLICATION INFORMATION

CHARACTERISTICS / ADVANTAGES

- Water phase
- Application on wet substrates
- Attestation of Sanitary Conformity for drinking water (French ACS)
- Can be applied by spraying
- Recoatable up to 7 days

APPROVALS / STANDARDS

Attestation of Sanitary Conformity No. 21 MAT LY 073

Mixing Ratio	A	Volume	Weight	
	Sikagard-106 Primer (A)	20 %	21 %	
	Sikagard-106 Primer (B)	80%	79 %	
Consumption	250 to 500 g/m ² (in one or two coats, depending on the porosity of the substrate)			
Product Temperature	+10°C min. / +35°C max.			
Ambient Air Temperature	+7°C min. / +40°C max.			
Relative Air Humidity	5% r.h. min / 80% r.h. max			
Dew Point	Beware of condensation. To reduce the risk of condensation, the substrate must be at a temperature of + 3 °C above the dew point.			
Substrate Temperature	+10°C min / +40°C max.			
Substrate Moisture Content	The maximum rate measured using a non-destructive mass moisture meter (non-destructive method, CM scale) is 4%. The maximum content of the substrate must be ≤ 6% by weight (measured with a carbide meter). There must be no rising damp in accordance with ASTM D 4263 (polyane test).			
Pot Life	~ 60 minutes (at +20°C)			
Waiting Time / Overcoating	Title 1	+10°C	+20°C	+40°C
	Dust dry	15 hours	6 hours	2.5 hours
	Touch dry	42 hours	24 hours	5 hours
	Complete polymerization	10 days	7 days	5 days
	<i>These data are only indicative as curing times vary according to- the drying conditions (temperature and relative humidity in particular).</i>			
Waiting time	24 hours min. / 7 days max. (at +20°C)			
Systems	Refer to the Sikagard® DW and Sikagard® STEP system data sheets			

VALUE BASE

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

USES

- When the substrate temperature is between +10°C and + 15°C, setting time may be longer.
- On cold and/or damp substrates, 2 coats of Sikagard-106 Primer may be necessary.
- When the maximum time for overcoating (7 days at +20°C) is exceeded, it is necessary to sand the surface lightly and thoroughly remove dust, then apply a new coat of Sikagard-106 Primer before applying the next coating.
- Do not add solvent.
- Substrates must be free of under-pressure or condensation during application and curing of Sikagard-106 Primer.
- Protect Sikagard-106 Primer from contact with moisture, condensation and water for 24 hours.
- Improper treatment of substrate defects may reduce

the life of the coating.

- Beware of gas exchanges that may be provoked caused by warming of the the substrate before polymerisation, which may lead to pinholes. It is recommended to apply by decreasing temperature.
- Temperature and hygrometry must be kept during application to avoid condensation.
- Avoid using heating systems that use fossil fuels which produce large quantities of water vapour and CO₂, which can affect the proper polymerization and adhesion of the resin.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling.
Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

EQUIPMENT

Manual application

- Brush.
- Roller: 10 to 12 mm.

Spray application

- Airless spray gun:
- Pump ratio 45/1 min.
- Nozzle 19 to 21/1000"
- Air pressure 3 to 5 kg/cm².

SUBSTRATE QUALITY

The substrate must have the following minimum mechanical resistance:

- Concrete must be at least 28 days old.
- Cohesion of at least 1.5 MPa (pull-off).
- Compressive strength of at least 25 MPa.
- Substrate must be clean, sound and dry.
- The surface must be rough and free of all non- or poorly adhering parts, free from traces of oil, laitance, grease, curing compound and any substance likely to impair adhesion.

SUBSTRATE PREPARATION

- Mechanical preparation by shot-blasting or any other suitable mechanical means. If in doubt, first apply a test surface.
- Careful vacuuming must be carried out after surface preparation.
- Substrate defects such as stone nests, holes or unevenness are first treated with suitable products from our Sikafloor[®], SikaTop[®], Sika MonoTop[®], Sikadur[®], SikaGard[®] or Icoment[®] ranges.

MIXING

Sikagard-106 Primer is packed in pre-dosed packages. In case of splitting, the mixing ratio A/B must be observed.

- Carefully re-mix component A, if necessary, with a mechanical mixer.
- Add component B to component A
- Mix the A + B mixture with a mechanical agitator for 3 minutes

To reduce air entrainment as much as possible during mixing, it is advisable to carry out this operation at low speed (approx. 400 rpm), taking care to keep the agitator at the bottom of the bucket during rotation.

APPLICATION

Check the humidity of the substrate, relative humidity, the ambient temperatures of the product and the dew point.

Apply Sikagard-106 Primer by roller or spray in 1 or 2 coats.

CLEANING

Clean tools with water immediately after use. Once hardened, the product can only be removed mechanically.

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.

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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