BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-62 IN

CHEMICAL RESISTANT, SOLVENT FREE, 2-PART EPOXY BASED PROTECTIVE COATING

DESCRIPTION

Sikagard®-62 IN is a two part, rigid, 100% solids, colored high build epoxy resin based protective coating with high chemical resistance. It can be reinforced using a glass fiber fabric as lining to protect steel & concrete surfaces from aggressive chemicals. Sikagard®-62 IN is food grade protective coating and suitable for application over steel, masonry & concrete surface of potable water tanks.

USES

- Chemical resistant protective coating for STP, ETP & WWTP (Waste Water Treatment Plants)
- Chemical resistant protective coating for substrate like, concrete, steel, stone, cementitious mortars & renderings, epoxy resin based surface.
- Protective coating for Drinking Water Tanks
- Epoxy Lining in storage tanks and silos
- Anti-corrosion coating on steel in food processing plants, sewage works, farms, agricultural enterprises, chemical and pharmaceutical facilities and beverage industry.

CHARACTERISTICS / ADVANTAGES

- Solvent free
- High build coating
- Impervious to liquids
- Easy to mix and to apply
- Good abrasion resistance
- Good mechanical and chemical resistance
- Applied by brush, roller or airless spray

PRODUCT INFORMATION

Chemical base	Epoxy resin
Packaging	8 Kg (4Kg x 2)
Colour	Grey & Sky Blue
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 temperatures between +5°C and +35°C.
Density	1.3 kg/l (at 30°C)
Solid content	~100% (by weight)

TECHNICAL INFORMATION

Shore D hardness	~80		(DIN 5305)
Tensile strength	~30 N/mm²		(ASTM D 638)
Tensile adhesion strength	Concrete	>1.5 N/mm² (Concrete Failure)	(ISO 4624)
	Steel (SA 2.5)	> 15 N/mm²	(ISO 4624)

Chemical resistance

Test Medium & Test Temperature		1 day	3days	7days	28 days
Acetone	RT	A	A	A	A
Ethanol 96%	RT	A	A	A	A
Sodium hydroxide 50%	RT	A	A	A	A
Sea Water	RT	A	A	A	A
Isopropyl Alcohol	RT	A	A	A	A
Nitric acid 20%	RT	A/D	A/D	A/D	C
Phosphoric acid 40%	RT	A/D	A/D	A/D	B
Acetic Acid - 20%	RT	C	C	C	C
Formic acid 10%	RT	C	C	C	C
Hydrochloric acid 37%	RT	A/D	A/D	A/D	B
Hydrogen peroxide - 30%	RT	A/D	A/D	A/D	A/D
Sodium hypochlorite solution - 4~6%	RT	A/D	A/D	A/D	A/D
Sulfuric Acid - 50%	RT	A/D	A/D	A/D	A/D

RT = Room Temperature (+30°C); Curing time of product = 10 days

A = Resistant; B = Limited Resistance; C = Unstable; D = Discoloration

Above test is condcuted in immersed condition as per IS 4631-1968, +30°C

Elongation at break	~1%	(ASTM D 412)

APPLICATION INFORMATION

Mixing ratio

Part A : Part B = 3: 1 (by weight)

Consumption

Coating System	Product	Consumption
Primer	Sikagard®-67	0.2~0.4 kg/m²
Roller coating	Sikagard®-62 IN	0.3~0.5 kg/m² per coat
Lamination	Sikagard®-62 IN + Sika® Fabric-50	1st layer: 0.7 kg/m² 2nd layer: 0.6 kg/m² Seal coat: 0.4 kg/m²

Note: Consumption dependent on the substrate condition and required coating thickness. For a theoretical DFT (dry film thickness) of 200 microns (0.2 mm) approx. 0.30 kg/m² must be applied.

Ambient air temperature	+8°C min. / +40°C max.
Relative air humidity	80% max.
Dew point	The substrate and uncured applied material must be at least +3°C above dew point to reduce the risk of condensation.
Substrate temperature	+8°C min. / +35°C max.
Substrate moisture content	< 4% parts by weight
Pot life	~20min. at 30°C

Waiting time / Overcoating

Before applying Sikagard®-62 IN on primer of Sikagard®-67 allow:

Substrate Temperature	Minimum	Maximum
+10°C	180 minutes	7 days
+20°C	180 minutes	7 days
+30°C	180 minutes	7 days

Before applying Sikagard®-62 IN on Sikagard®-62 IN allow:

Substrate Temperature	Minimum	Maximum
+10°C	9 hours	3 days
+20°C	5 hours	2 days
+30°C	4 hours	1 day

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied product ready for use

Temperature	Foot traffic	Full cure
+10°C	~24 hours	~15 days
+20°C	~18 hours	~9 days
+30°C	~12 hours	~7 days

Note: Times are approximate and will be affected by changing ambient conditions.

System structure

Coating (concrete surface):	
Primer	1~2 × Sikagard®-67
Coating	2~3 × Sikagard®-62 IN

Coating (Steel surface):	
Primer	1 × Sika® FerroGard®-950 IN
Coating	2~3 × Sikagard®-62 IN

High build lamination (1.5~2.0 mm):	
Primer	1 × Sikagard®-67
1st lamination layer	1 × Sikagard®-62 IN
2nd lamination layer	1 × Sikagard®-62 IN + Sika® Fabric-50
Seal coat	1 × Sikagard®-62 IN

The fabric should be embedded in the 'wet' Sikagard®-62 IN using a special profiled roller.

Dry film thickness

200 microns per coat of Sikagard®-62 IN

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

Method Statement: Sikagard®-62 IN

IMPORTANT CONSIDERATIONS

- Do not apply Sikagard®-62 IN on moist substrates.
- Sag resistance on vertical surface is approx. 200 µm.
- Freshly applied Sikagard®-62 IN must be protected from damp, condensation and water for at least 24 hours.
- For exact colour matching ensure using material from the same control batch numbers.

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

EQUIPMENT

- Electric single paddle mixer (300 to 400 RPM) for mixing of Sikagard®-62 IN.

SUBSTRATE QUALITY

The concrete substrate must be sound and >M25 grade with a pull off strength of >1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as oil, grease, coatings etc.

SUBSTRATE PREPARATION

Concrete Substrate

Concrete substrate must be prepared mechanically to achieve an open textured surface. Weak areas in the substrate must be removed and surface defects such as blowholes and voids must be fully exposed.
All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum. Open voids and blowholes need to be closed with a suitable Sika® pore filling mortar. The roughness of the substrate needs to be levelled with a suitable Sika® rendering and levelling mortar.

SUBSTRATE QUALITY / PRE-TREATMENT

On dry concrete surfaces, Sikadur® PF IN may be applied in a thickness of up to 3 mm to repair the poor concrete surface. On damp concrete surface, Sikagard®-720 EpoCem® IN can be applied as Temporary moisture barrier (TMB) in a thickness of 2.0 mm minimum.

MIXING

Prior to mixing, stir Part-A (resin) mechanically. Add Part-B (hardener) to Part A. When all of Part-B has been added to Part-A, mix continuously for 2 minutes until a uniform mix has been achieved. Use a low-speed electrical stirrer (300~400 RPM) to avoid air entrapment. To ensure proper mixing pour material into a clean container and stir again.

APPLICATION

IMPORTANT

- **Application in high moisture:** If > 4% pbw moisture content, Sikagard®-720 EpoCem® IN may be applied as a T.M.B. (temporary moisture barrier) system.
- Apply the Product with a stiff brush or a short piled, solvent resistant roller or airless spray machine.
- Maintain a "wet edge" during application for a seamless finish.

Note: Avoid puddles on the surface during application.

CLEANING

Clean all tools and application equipment with Sika®Thinner C or suitable solvent immediately after use. Hardened material can 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 exact product data and uses.

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LEGAL NOTES