

PRODUCT DATA SHEET

Sikagard®-62 T

Ultra high build chemically resistant coating / lining

DESCRIPTION

Sikagard®-62 T is a trowelable/sprayable ultra high build lining for harsh environments.

USES

Sikagard®-62 T is used as a protective lining for:

- Chemical bunds area
- Waste Water Treatment and Holding Facilities
- Storm Water Pits
- Drinking Water Facilities

CHARACTERISTICS / ADVANTAGES

- Protective and decorative.
- Excellent chemical resistance.
- Easy for cleaning and graffiti removal.
- High abrasion resistance.
- Excellent adhesion to most building materials.
- Can be built up to 5mm per pass.
- Approved for use with potable water.
- Can be spray applied.

PRODUCT INFORMATION

Composition	Epoxy resin	
Packaging	Part A	18 kg
	Part B	6 kg
Shelf life	24 months from date of production	
Storage conditions	The packaging must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protected from direct sunlight.	
Appearance and colour	Grey	
Density	Mixed resin approx. 1.28 kg/l Density values determined at +23 °C	
Compressive strength	Approx. 50 MPa at 7 days	
Tensile strength in flexure	Approx. 50 MPa at 7 days	
Tensile strength	Approx. 25 MPa at 7 days	
Modulus of elasticity in tension	Approx. 30-40 x10 ² MPa at 7 days	
Tensile adhesion strength	Dry concrete	3.5 MPa *
	Sandblasted steel	25 MPa
	Aluminium	16 MPa
* failure in concrete		

Temperature resistance	Permanent maximum: dry 70°C & wet 60°C			
Consumption	Theoretical coverage of 3.6m ² at 5mm thickness per 24 kg kit, depending on substrate profile and texture, waste factor etc.			
Ambient air temperature	+5 °C min. / +30 °C max.			
Relative air humidity	85% max.			
Pot Life	Approx. 30 mins. at +20°C			
Curing time		<u>30°C</u>	<u>20°C</u>	<u>10°C</u>
	Overcoating	5 hrs	10 hrs	18 hrs
	Walkable	8 hrs	17 hrs	24 hrs
	Full chemical resistance	5-9 days	12 days	15 days
<i>Note: Sikagard®-62 T reaches 90% of its full cure at 20°C in 4 days.</i>				

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.

IMPORTANT CONSIDERATIONS

- Do not dilute the product as this will effect in-service performance. Thinner or solvents must not be used.
- For application in damp conditions please Consult our Technical Department for further information.
- Do not part mi containers.
- Do not mix and apply product that has a temperature of greater than 30°C. If applying at higher 30°C, as soon as the Sikagard®-62 T is mixed transfer the container into an esky containing ice to just below the rim of the container, then apply the Sikagard®-62 T from the open container in the esky.
- The temperature at which the Sikagard®-62 T is stored during the 24 hours before it is mixed will govern its potlife when mixed.
- If the temperature of a porous substrate (which includes the avast majority of concrete) is rising i.e. is in direct sunlight prior to late afternoon, the air in the pores and cracks is expanding and if a wet coating is placed over such a substrate the expanding air will blow bubbles in the coating and pervent the liquid coating penetrating the substrate pores and cracks etc. Prior to the coating reaching the gel phase the bubbles will burst and leave "pinholes in coating, whereas during the gel phase, the bubbles will be "frozen" into the cured coating. These bubbles will be a weak point in the coating as their wall thickness will be less than the applied film thickness on the substrate.
- To avoid unsightly water spotting do not apply Sikagard®-62 T when ambient temperature will reach "dew point" before the coating has cured.
- Similarly do not allow water to contact Sikagard®-62 T that is not even seven (7) days old at 20°C or older at lower temperatures since it will mark the coating.
- Do not apply Sikagard®-62 T to cementitious mortars that are modified with acrylic, acrylic co-polymer, EVA or PVA polymers (eg. SikaTops or Sika Mono-tops) because under certain environment conditions hardened mortar or render may swell slightly and

cracks the rigid epoxy coating.

- Light colours will yellow with exposure to sunlight or UV radiation.
- Please consult our Technical Department for further information.

ECOLOGY, 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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must be sound, clean, dry, free from contaminants such as dirt, grease, oil, old coatings, release agents, laitance and other adhesion preventing or influencing substances. On high absorbent, non-sound, contaminated, not cement based substrates precautions have to be taken and a suitable primer has to be used.

SUBSTRATE PREPARATION

Concrete Substrates

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.

Steel Surface

Steel surface must be prepared mechanically using abrasive blast cleaning. The level SSPC-SP 10 "near white metal blast cleaned" or level Sa 2 ½ according to ISO EN 12944-4 has to be achieved. Welds and joints have to be prepared according to EN 14879, part 1. After blast cleaning remove all dust dirt and blasting material. In order to maintain the surface conditions after blast cleaning air-conditioning is recommended.

MIXING

Prior to mixing stir part A mechanically. When all of part B has been added to part A mix continuously for 3 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

Apply by brush, roller or airless spray.

CLEANING OF EQUIPMENT

Clean all tools with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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