BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-61 TZ

Epoxy splash zone coating

DESCRIPTION

Sikagard®-61 TZ is a high performance solvent free, two part epoxy coating fortified with high quality self-leafing glass flakes designed to provide corrosion resistance and abrasion protection in extreme service applications. This specially designed epoxy system has very high penetrating properties, flexibility and adhesion on wet concrete and steel substrate.

USES

Sikagard®-61 TZ is designed to provide corrosion protection for metal and concrete structures in offshore marine and petrochemical services, sheet piles, underground and submarine pipes, waste water tanks, jetty piles, underground tanks and other structural steel that requires protection against corrosion in aggressive environment.
It is most suitable for use where concrete surfaces are damp and cannot be dried out. Suitable for maintenance of splash and tidal zones.

CHARACTERISTICS / ADVANTAGES

- Deep penetration into concrete surface to avoid peeling
- High build – can be applied up to 250 microns in one coat
- Self-leafing glass flakes for increased impermeability
- Good resistance against mild chemicals
- Excellent adhesion to wet surface
- Cures under water after application
- Cures at low temperatures
- Excellent flexibility

PRODUCT INFORMATION

Packaging	Part A	Resin base	2.6 kg
	Part B	Hardener	2.4 kg
	Part A + B		5 kg set
Shelf life	Min. 2 years from the date of production if stored properly		
Storage conditions	Store properly in original, unopened and undamaged sealed packaging in cool dry conditions below 25 °C. Keep away from direct sunlight.		
Appearance / Colour	Semi gloss concrete grey		
Density	~1.5 kg/l mixed depending on colour		
Solid content by volume	97 ± 2 %		

TECHNICAL INFORMATION

Tensile Adhesion Strength	On concrete	> 1.5 N/mm²	(ASTM D4541)
	On steel (surface profile ~50 µ)	> 1.5 N/mm²	

APPLICATION INFORMATION

Mixing ratio

Mixing ratio by weight
Approximately 1.08:1 (Part A:B) by weight (based on standard concrete grey colour). Mixing ratios for other colours may vary. For more information on mixing, contact Sika Technical Service Department.
Important Note:
Sikagard®-61 TZ is pre-packed in the correct proportion. Mix only full set of Sikagard®-61 TZ to avoid problems associated with curing and/or drying. Part mixing by weight is not recommended as it may affect the product performance and lead to reduce service life.

Consumption

Recommended consumption: 0.3 – 0.6 kg/m²
Typical consumption: 0.5 kg/m² at the Dry Film Thickness (DFT) approx. 300 microns
The DFT of the coating (including number of coats) shall be specified/determined by the Engineer. These figures are theoretical, based on laboratory conditions, and do not account for any additional material due to surface porosity, surface profile, variations in level and wastage.

Pot Life

~60 minutes (Higher ambient temperatures will result in shorter potlife)

Waiting Time / Overcoating

Before applying Sikagard®-61 TZ on Sikagard®-61 TZ allow:

Substrate Temperature	Minimum	Maximum
30 °C	16 hours	3 days*

*Sika recommends the latter coat of Sikagard®-61 TZ be applied as soon as possible after the minimum overcoating time to reduce the risk of possible contamination to the previous coat.
Note: The times are approximate and will be affected by changing ambient conditions.

Drying time

At 30 °C,

Dust free	6 hours
Hard dry	16 hours

Applied Product Ready for Use

7 days (full cure)

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 CONSIDERATION

- Avoid formation of puddles on substrate surface when applying Sikagard®-61 TZ.
- Always ensure adequate fresh air ventilation when using Sikagard®-61 TZ in confined spaces.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and the material cracking.

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

SUBSTRATE QUALITY / PRE-TREATMENT

Substrates must be clean and free from all contaminants such as dirt, oil, grease, coatings and surface treatments that may inhibit bonding.
All dust, loose and friable materials must be completely removed from all surfaces before application of coatings.
Steel
For maximum protection, sand blast to remove surface contaminants and create surface profile about 50 to 75 microns.
Concrete
Wet blasting or high pressure water jet blasting is recommended to remove surface contaminants before application of coatings.

APPLICATION

Stir each component separately using an electric drill (~750 rpm) fitted with a paint mixer or wing type mixing paddle. Then pour the entire Part B into Part A and continue mixing for 2–3 minutes until a homogenous mix is observed. Decant the mixed material into another clean container and mix for another 30–60 seconds. Sikagard®-61 TZ is now ready to be applied on the substrate.

Important Note:

- Mix only full set of Sikagard®-61 TZ. Part mixing by weight is not recommended.
- Manual mixing or hand mixing of Sikagard®-61 TZ is not recommended. Always use an electrical/mechanical mixer.
- Thinning is not recommended.
- For more information on mixing, please contact Sika Technical Service Department.

Sikagard®-61 TZ can be applied by brush, roller or spray.

CLEANING OF TOOLS

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

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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