

# STACOR TANKGUARD

High-Solid Epoxy Coating.

## 1. Product Description:

STACOR TANKGUARD is a two-component epoxy resin-based coating for steel and concrete. The coating is resistant to mechanical and chemical effects, wear-resistant, and resistant to vibration, and impacts.

## 2. Application Areas:

STACOR TANKGUARD is primarily used as an internal coating for steel and concrete tanks for flammable liquids (oil, petroleum products, gasoline, Jet A1 aviation fuel, vacuum gas oil, diesel fuel), silos, containers, pipes and steel receiving (catching) basins in the chemical industry.

## 3. Material Properties:

|                                       |                                                                                                                                                                                                                                |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Color:</b>                         | Gray (or other colors upon request)                                                                                                                                                                                            |
| <b>Theoretical Consumption:</b>       | 0,529 kg/m <sup>2</sup> at a dry film thickness of 300 µm.                                                                                                                                                                     |
| <b>Density:</b>                       | ~ 1,50 g/cm <sup>3</sup>                                                                                                                                                                                                       |
| <b>Dry residue content by volume:</b> | 85 ± 3%                                                                                                                                                                                                                        |
| <b>Shelf Life:</b>                    | 12 months from the date of manufacture.                                                                                                                                                                                        |
| <b>Storage Conditions:</b>            | Store in a dry place at temperatures ranging from -40°C to +40°C, in tightly sealed containers, protecting from moisture and direct sunlight.                                                                                  |
| <b>Coating Thickness:</b>             | STACOR TANKGUARD (set): 20 kg (net)<br>STACOR TANKGUARD component A: 16 kg (main component)<br>STACOR TANKGUARD component B: 4 kg (hardener)<br>Dry film Thickness – 300 µm (1 layer)<br>Wet film Thickness – 353 µm (1 layer) |

## 4. Coating systems

|                 |                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Systems:</b> | <u>Steel:</u><br>Apply 1-2 coats of Stacor Tankguard to the specified dry film thickness.<br><br><u>Concrete:</u><br>Apply the first coat of primer using a wide brush, ensuring thorough penetration into the surface. Alternatively, use an airless spray, thinning the compound to a liquid consistency.<br><br>Apply the second and third coats by airless spray to the required thickness. |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 5. Technical specifications

### Preparation of surface:

#### Steel:

Abrasive blasting to Sa 2½ according to ISO 8501-1 (surface preparation according to ISO 12944-4) (up to cleaning grade 2 according to GOST 9.402). Rz 70...100 µm.

Cleaning from dirt, grease and oil.

#### Concrete:

The surface must be clean and sound. This requires removing residues of previous coatings, cement laitance, organic contaminants, and other substances that may interfere with the adhesion of the material to the substrate. The most suitable cleaning methods are abrasive blasting (sandblasting). The substrate temperature should be between +5°C and +30°C. After surface preparation, the compressive strength of the substrate must be at least 15 MPa, and the tensile strength must be at least 1,5 MPa, to ensure the required bond strength. Residual moisture content must not exceed 4%.

Before applying the coating system, existing cracks must be sealed with SikaEmaco 488 series products and finished with SikaEmaco N 900.

If the substrate has cavities or minor irregularities, the surface must be leveled with SikaEmaco® N 900.

Inner corners should be filled with SikaEmaco 488 fillets with a radius of approximately 40 mm, and outer corners should be rounded by 5–10 mm. The surface is considered prepared when it is cleaned of old paint and varnish coatings, is smooth, free of chips, cavities, cracks, and meets roughness class of 3-Sh according to SP 72.13330-2012.

### Preparation of material:

Before mixing, stir component A mechanically. Before applying, carefully mix components A+B in the prescribed proportions. Comp. A : Comp. B = 4 : 1 by weight (16 kg + 4 kg).

Mixing time is at least 3 minutes with an electric mixer.

Stop stirring once a homogeneous mixture is obtained.

### Application temperature:

Not below 0 °C and not above +40 °C (can be applied at lower temperatures down to -10 °C with a winter hardener, drying time increases).

### Relative humidity:

30...80 % when applying. When applying and during drying, the temperature should be +3 °C higher than the dew point temperature.

### Application method:

By brush, roller, air and airless spray.

When applying by airless spray:

Nozzle diameter - 0,016...0,018 inches

Initial pressure - 12...15 MPa

|                                 |                                                             |        |        |
|---------------------------------|-------------------------------------------------------------|--------|--------|
| <b>Pot life of the mixture:</b> | At + 20 °C approx. 2 hours.                                 |        |        |
| <b>Thinner:</b>                 | Stacor thinner, or similar, as agreed with the supplier.    |        |        |
| <b>Dilution:</b>                | Generally not required, but up to 7 % by weight is allowed. |        |        |
| <b>Drying conditions:</b>       |                                                             | +10 °C | +20 °C |
|                                 | Drying before applying the next layer                       | 12 h   | 6 h    |
|                                 |                                                             |        | +60 °C |
|                                 |                                                             |        | 45 min |
| <b>Occupational safety:</b>     | Coating components are flammable. Contain organic solvents. |        |        |

This information provides details about our product and its application in accordance with the current state of scientific knowledge. However, it does not guarantee the product's properties in every specific case.

It is essential to follow the warning labels on the packaging and consider any existing industrial property rights. We guarantee the high quality of our product within the framework of the general terms of sale for the domestic market or export.

As our materials are regularly improved to meet market requirements, the technical information related to them is also subject to change. Please ensure that you verify the relevance of the version you are using before application.