



TIKKURILA

# GRAFOTHERM

ANTI-CONDENSATION COATING

**DESCRIPTION**

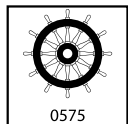
Waterborne, functional, anti-condensation coating for airless application.

**RECOMMENDED USES**

Recommended to be used on site for steel roofing sheets, steel structures and other metal surfaces where condensation and dripping water problem occurs. Suitable for interior painting of mineral roof and wall surfaces such as concrete, filler, tile, gypsum board etc. Excellent moisture absorbing and evaporation properties. Prevents from condensation and dripping water, insulates from heat ( $\lambda = 0.085 \text{ W/mK}$ ). Forms a flexible and porous coating. Provides also vibration and acoustic damping when applied as a thick layer. Complies with the requirements of EN13501-1, class A2-s1d0 and ASTM E84 (USA). The product has MED (Marine Equipment Directive) certificate no MED-B-10019 and is thus accepted for painting surfaces inside the ships.

**PRODUCT FEATURES**

Suitable for interior painting and exterior painting for surfaces protected from rain.



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TECHNICAL DATA	
<b>Colour Shades</b>	White and light grey.
<b>Gloss</b>	Matt. (5/RT classification)
<b>Coverage</b>	<p>The recommendable film thickness depends on the moisture stress and the type of structure. Check the separate Grafotherm Use Manual. The painting method, conditions, the shape of the painted surface and the quality of the surface all affect how much paint is needed.</p> <p>To fill the requirements of the MED certificate, the wet film thickness must be max 900 µm and the substrate must be of metal, material thickness min 0.75 mm.</p>
<b>Can sizes</b>	18 l, 950 l
<b>Thinner</b>	Water
<b>Application method</b>	By airless spray or when not possible by brush or roller.
<b>Drying time</b>	Drying is affected by the thickness of the paint film, temperature, relative humidity of air and ventilation. Indicative drying times for at +20 C, RH 55%: Touch dry 1-2 h and re-coatable 8-12 h.
<b>Density (kg/l)</b>	approx. 1,1 kg/l
<b>Volume solids (%)</b>	45
<b>Weight solids (%)</b>	32
<b>Water absorption</b>	About 520 g/m <sup>2</sup> water(1000 g/m wet paint quantity, 320 g/m <sup>2</sup> dry seal) NF P15-203-1 1997
<b>VOC</b>	The amount of volatile organic compounds is 15g/litre.
<b>Storage</b>	Protect from frost For industrial and professional use only.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.



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## APPLICATION INSTRUCTIONS

### Application conditions

All surfaces must be dry. The temperature of the ambient air and surface should not fall below +10°C during application and drying. Relative humidity should not exceed 80%. The surface temperature of the surface to be coated should remain at least 3°C above the dew point. The temperature of paint itself should be above +15°C for proper application. Good ventilation is required in confined areas during application and drying.

### Surface preparation

Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)

#### Zink surfaces:

Sweep blast-clean with mineral abrasives (SaS) to an even roughness. For blasting material, use e.g. clean, dry quartz sand (SFS 5873). If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with PANSSARIPESUROOF CLEANING AGENT detergent.

#### Aluminium surfaces:

Sweep blast-clean with none-metallic abrasives to an even roughness (SaS, SFS 5873). If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with MAALIPESU CLEANING AGENT detergent.

#### Previously painted surfaces:

Industrial coil primer on the backside of the steel roofing does not require any special preparation. Oil, grease, salts and dirt are removed by appropriate means. The priming damages can be fixed by Rostex Super Akvar or Temaprime EE. Note the overcoating time of primer.

#### Stainless steel:

Roughen the surface by grinding or sweep blasting using non-metallic abrasives.

#### Mineral surfaces:

Prime the porous and absorbing surfaces with ProSeal primer before applying the GrafoTherm.

### Priming

Rostex Super Akva, Temaprime EE, Temacoat RM 40, Temacoat Primer, Temacoat GPL-S Primer or directly on galvanized surface (see Surface preparation). Old painted surfaces are recommended to roughen to ensure adhesion.

No finish. finishing painting weakens the coating. airless spraying.

By airless spray or when not possible by brush or roller. Stir the paint well before use. For spraying, the paint can be diluted by 0-5%. Airless spray nozzle tip, comparative diameter, 0.027"–0.029" and nozzle pressure 150–180 bar. Diffusion angle max 400. Use a spray unit with an output of minimum 2.7 l/min. If sieves should be used, use a course sieve, e.g. 30–60 mesh.

A mortar pump or a spray gun can be used in smaller areas, nozzle 6 mm, pressure 2 bar.

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## Cleaning of tools

Clean tools with water.

## Environmental protection and waste disposal

Avoid spillage into drains, water systems and soil. Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

## Health and Safety

**Contains:** 2-octyl-2H-isothiazol-3-one (OIT). **Warning.** May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects. Avoid breathing mist/spray. Avoid release to the environment. Wear protective gloves. In case of inadequate ventilation wear respiratory protection. **IF ON SKIN:** Wash with plenty of soap and water. **Warning!** Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Contains small amounts of sensitizing substances: 1,2-benzisothiazol-3(2H)-one (BIT) and reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (C(M)IT/MIT (3:1)). This product contains a biocidal product for the preservation of the product during storage. Contains: C(M)IT/MIT (3:1).



GHS07

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