



# Grafotherm

## DESCRIPTION

A one-component, water-borne, functional, anti-condensation coating for airless application

## PRODUCT FEATURES AND RECOMMENDED USES

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

## TECHNICAL DATA

### Volume solids

45±2%

### Specific gravity

approx. 1,1 kg/l

### Water absorption

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

### Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
190-320 g/m <sup>2</sup>	600-1000 g/m <sup>2</sup>	1,8-1,1 m <sup>2</sup> /l
250-410 µm	550-900 µm	1,8-1,1 m <sup>2</sup> /l

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.

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.

### Drying time

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.

### Gloss

Matt. (5/RT classification)

### Color shades

Black, white and light grey.

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	<p>Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)</p> <p>Zink surfaces:</p> <p>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 PANSSARIPESU ROOF CLEANING AGENT detergent.</p> <p>Aluminium surfaces:</p> <p>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.</p> <p>Previously painted surfaces:</p> <p>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.</p> <p>Stainless steel:</p> <p>Roughen the surface by grinding or sweep blasting using non-metallic abrasives.</p> <p>Mineral surfaces:</p> <p>Prime the porous and absorbing surfaces with ProSeal primer before applying the GrafoTherm.</p>
<b>Recommended primers</b>	<p>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.</p>
<b>Application conditions</b>	<p>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.</p>
<b>Application</b>	<p>No finish. finishing painting weakens the coating. airless spraying.</p> <p>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 coarse sieve, e.g. 30–60 mesh.</p> <p>A mortar pump or a spray gun can be used in smaller areas, nozzle 6 mm, pressure 2 bar.</p>
<b>Thinners</b>	<p>Water</p>
<b>VOC</b>	<p>The amount of volatile organic compounds is 15g/litre.</p>



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## HEALTH AND SAFETY

Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.

A health and safety data sheet is available on request from Tikkurila Oyj.

### **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.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.