

Temacoat GF-HS Primer

DESCRIPTION

A two-component, high-solids, high performance anti-corrosive epoxy primer.

PRODUCT FEATURES AND RECOMMENDED USES

- Due to superior levelling properties, Temacoat GF-HS Primer forms a smooth and dense substrate for the subsequent paint layer. The product ensures an aesthetically pleasing appearance for epoxy and polyurethane systems, thus enhancing the high quality look of the painted object.
- Temacoat GF-HS Primer dries fast supporting efficiency in your operations. The primer can help speed up the painting process and decrease the overall costs of the painting system. Less time for priming is a remarkable benefit. Thanks to special type hardener, the product cures even at sub-zero temperatures.
- Using high-solids Temacoat GF-HS Primer instead of traditional epoxies results in lower VOC per litre and reduced impact on the applicator and the environment. Temacoat GF-HS Primer can be applied without thinning on steel and HDG surfaces even with higher dry film thickness.
- At higher film thicknesses Temacoat GF-HS hides small surface imperfections and using putty is not necessarily needed. Even and smooth surface requires less sanding.
- Recommended for agricultural and earth moving machinery and other machinery and equipment.

TECHNICAL DATA

Volume solids	80±2%
Weight solids	90±2%
Specific gravity	ab. 1.6 kg / l (mixed)
Mixing ratio	Base 5 parts by volume Temacoat GF-HS Primer Hardener 1 part by volume Hardener 008 5617
Pot life (+23°C)	1½ hours

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
100 µm	80 µm	10.0 m²/l
188 µm	150 µm	5.3 m²/l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Note! The painting work should be performed and supervised according to ISO 12944-7 if not otherwise stated in the respective technical data sheet. Excessive film thickness may result e.g. in cracking, sagging, prolonged drying time, soft film, less chemical resistance, gloss deviation, adhesion and intercoat functionality. In case the product is used otherwise than stated in the standard a written approval from Tikkurila is required.

Drying time

DFT 120µm	-5°C	0°C	+10°C	+23°C	+35°C
Dust dry, after	22h	18h	3h	1½h	50min
Touch dry, after	29h	21h	11h	3½h	1½h
Recoatible, min. after	25h	18h	9h	3h	1h
Recoatible with polyurethane paints, min. after	25h	18h	9h	3h	1h



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Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Gloss

Semi-gloss.

Color shades

Black and Grey

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APPLICATION INSTRUCTIONS

Surface preparation	<p>Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)</p> <p>Steel surfaces: Blast clean to grade Sa2½. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.</p> <p>Zinc surfaces: Sweep blast clean with mineral abrasives, e.g. quartz sand, to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with Panssaripesu detergent. For hot dip galvanized surfaces see separate application instructions or contact Tikkurila ProService.</p> <p>Primed surfaces: Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (ISO 12944-4)</p>
Recommended primers	Temacoat GF-HS Primer, Temazinc 77, Temazinc 99, Temasil 90.
Recommended topcoats	Temacoat GPL, Temacoat GS 50, Temacoat GPL-S MIO, Temacoat 50, Temadur 10, Temadur 20, Temadur 50, Temadur HB 50, Temadur HB 80, Temadur 90, Temadur HS 90, Temathane 50, Temathane 90, Temathane PC 50, Temathane PC 80, Temasilox.
Application conditions	<p>All surfaces must be clean and dry and free from contamination. During application and drying the temperature of the surface should not fall below -5°C. The surface temperature of steel should remain at least 3°C above the dew point. Care has to be taken that there is no ice on the substrate. For proper application the temperature of the paint itself should be above +15°C during mixing and application. Good ventilation and sufficient air movement is required in confined areas during application and drying.</p> <p>Note! There is a natural tendency of this coating to chalk, discolor or yellow unevenly. It is recommended to use polyurethane topcoat when there are high aesthetical requirements on color appearance.</p>
Mixing components	First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use power mixer for mixing. Insufficient mixing or incorrect mixing ratio will result in uneven drying of the surface and weaken the properties of the coating.
Application	<p>For airless spraying, the product is thinned approximately 0–10% (max. 20%). Recommended nozzle tip is 0.011"–0.015" and pressure 120–180 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For brush application the product should be thinned according to the circumstances.</p> <p>In case of larger projects, i.e. more than one set, it is recommended either to use the whole mixture at once or to prepare a new mixture instead of combining old and new mixtures. Use of two-component equipment is recommended as well in order to maintain homogenous mixture.</p>
Thinners	Thinner 1031
Cleaning of equipment	Thinner 1031.
VOC	The Volatile Organic Compounds amount (ISO 11890) is 195 g/litre of paint mixture. VOC content of the paint mixture (thinned 20% by volume) is 310 g/litre. VOC 2004/42/EC (cat A/j) 500 g/l (2010)



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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.