



Temadur Primer

DESCRIPTION

A two-component matt polyurethane primer containing anti-corrosive pigments, hardener aliphatic isocyanate.

PRODUCT FEATURES AND RECOMMENDED USES

- Forms a smooth and dense substrate for the subsequent paint layer
- Used as a primer in paint systems exposed to weathering and chemical stress. The paint adheres well to different kinds of substrates, such as steel, aluminium and zinc
- Due to its anti-corrosive pigmentation, Temadur Primer protects the surface from corrosion
- Recommended to be used as a primer in polyurethane systems exposed to weathering and/or chemical stress
- Recommended for painting of haulage equipment, storage tank exteriors and other steelwork, machinery and equipment

TECHNICAL DATA

Volume solids 56±2%. (ISO 3233)

Weight solids 72±2%.

Specific gravity 1.3±0.1 kg / l (mixed)

Mixing ratio Base 7 parts by volume Temadur Primer
Hardener 1 part by volume 008 7590

Pot life (+23°C) 4 hrs

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
70µm	40µm	14.0 m ² /l
180µm	100µm	5.6 m ² /l

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

Drying time

DFT 50 µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	30min	30min	15min	10min
Touch dry, after	6h	5h	3h	1½h
Recoatible, min. after	4h	2h	30min	20min

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

Gloss Matt.

Color shades Grey (TVT 4004).

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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 Technical Service.</p> <p>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 detergent.</p> <p>Stainless steel: Roughen the surface by grinding or sweep blasting using mineral abrasives.</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	Temadur Primer.
Recommended topcoats	Temadur 10, Temadur 20, Temadur 50, Temadur 90, Temadur HB 50, Temadur HB 80, Temathane 50.
Application conditions	All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +5°C during application and drying. Relative humidity of the air should not exceed 80% during application and drying. The surface temperature of steel should remain at least 3°C above the dew point. Good ventilation and sufficient air movement is required in confined areas during application and drying.
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 depending on the temperature of the components and the required viscosity approximately 0–15%. Mixing of the components and adjustment of the viscosity should be done right before use in order to reach an optimal result. Recommended nozzle tip is 0.011"–0.015" and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For conventional spraying, the product is thinned approximately 5–15%. Recommended nozzle tip is 1.6–1.8 mm and pressure 3–4 bar.</p> <p>For brush application the product should be thinned according to the circumstances.</p>
Thinners	<p>Thinner 1048, Thinner 1061</p> <p>Thinner 1061 is also suitable for conventional spraying.</p>
Cleaning of equipment	Thinner 1048 or Thinner 1061.
VOC	The Volatile Organic Compounds amount (ISO 11890) is 385 g/litre of paint. VOC content in paint (thinned 15% by volume) is 450 g/l.



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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.