

Temashield EA 70

DESCRIPTION

A two-component, isocyanate-free high solids, epoxy modified acrylate direct-to-metal paint.

PRODUCT FEATURES AND RECOMMENDED USES

- Isocyanate free and does not, therefore, generate any di-isocyanates during cutting, welding or in a fire. The product promotes a healthier working environment and has less impact on the environment
- Can be applied directly onto steel without any priming. The product adheres extremely well to the surface and forms a tight, protective paint film. Due to its highly developed anti-corrosive properties, the product provides long-term protection
- Has been especially developed for use as single-coat paint. It is possible to achieve high film thickness with one application. The high-solids product ensures a long service life for the paint system
- Meets the requirements set in Volvo STD 423-0014, accelerated corrosion test for 6 weeks
- Good application properties
- Recommended to be used for steel constructions, machinery and equipment in process and other industries

TECHNICAL DATA

Volume solids 61±2 % (ISO 3233).

Weight solids 80±2 %.

Specific gravity 1.49±0.1 kg / l (mixed)

Mixing ratio Base 5 parts by volume Temashield EA 70
Hardener 1 part by volume 008 7070

Pot life (+23°C) app. 2 hours

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses/one coat application		Theoretical coverage
wet	dry	
125µm	80µm	8.0 m ² /l
190µm	120µm	5.3 m ² /l
Recommended film thicknesses/as a topcoat		Theoretical coverage
wet	dry	
65µm	40µm	15.4 m ² /l
95µm	60µm	10.5 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 60µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	4h	3h	1h	30min
Touch dry, after	9h	7,5h	3h	2h
Recoatible, after	No limitations.			

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation. When forced drying in temperatures +50–+80°C, use flash-off time between 30-45 minutes, depending on the wet film thickness and the actual temperature.



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Gloss

Gloss.

Color shades

RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. Temaspeed Premium tinting.

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APPLICATION INSTRUCTIONS

Surface preparation	Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4) 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. 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)
Recommended primers	Temacoat GPL-S Primer, Temacoat Primer, Temacoat GPL-S MIO, Temacoat HS-F Primer, Temazinc 77.
Recommended topcoats	Temashield EA 70.
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	For airless spraying, the product is thinned depending on the temperature of the components and shape of the object approximately 0–10%. Recommended nozzle tip is 0.011"–0.015" and pressure 160–200 bar. Spray angle shall be chosen according to the shape of the object. For conventional spraying, the product is thinned approximately 15–20%. Recommended nozzle tip is 1.6–1.8 mm and pressure 3–4 bar.
Thinners	Thinner 1031
Cleaning of equipment	Thinner 1031.
VOC	The Volatile Organic Compounds amount is 335 g/litre of paint. VOC content in paint (thinned 20 % by volume) is 430 g/l.
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.