

Temadur HS 90

DESCRIPTION

A two-component, high-solids glossy polyurethane paint, hardener aliphatic isocyanate.

PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Recommended as a glossy topcoat for epoxy systems exposed to weathering and/or chemical stress.
- ◆ Lower VOC content compare to conventional polyurethane finishes.
- ◆ Excellent weathering and abrasion resistance.
- ◆ A durable, easy-to-clean and non-chalking topcoat with good gloss and color retention.
- ◆ Recommended for painting of transport and haulage equipment, storage tank exteriors, steel framework and other steel structures, machinery and equipment.

TECHNICAL DATA

Volume solids 60±2%.

Weight solids 72±2%.

Specific gravity 1.3±0.1 kg / l (mixed)

Mixing ratio and product codes

Base	4 parts by volume	67V serie
Hardener	1 part by volume	008 7640

Pot life 1,5 hours (+23°C)

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
40µm	70µm	14.3 m ² /l
60µm	100µm	10.0 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 40µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	4h	2h	1h20min	30min
Touch dry, after	20h	10h	2h30min	2h
Recoatible, after	No limitations.			

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

Finish Glossy.

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

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APPLICATION DETAILS

Surface preparation	<u>Primed surfaces:</u> 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)
Primer	Temacoat GF Primer, Temacoat GPL-S Primer, Temacoat GPL-S MIO, Temacoat RM 40, Temacoat Primer and Temadur 20.
Finish	Temadur HS 90 and Temadur Clear.
Application conditions	All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below +5°C during application or drying. Relative humidity should not exceed 80%. The surface temperature of the steel should remain at least 3°C above the dew point.
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.
Application	By airless or conventional spray or by brush. In order to obtain an even, non-porous finish, spray a misty coat: first a thin layer, then let the solvents evaporate for 5-10 minutes and then apply the full coat. Depending on the temperature of the components (base, hardener, thinner) the paint must be thinned 15–20%. The viscosity should be 23–28 s DIN4. Airless spray nozzle tip 0.009"–0.011" and nozzle pressure 140–180 bar. Spray angle shall be chosen according to the shape of the object. At brush application the paint should be thinned according to the circumstances.
Thinner	Thinner 1048.
Cleaning of equipment	Thinner 1048.
VOC	The Volatile Organic Compounds amount is 363 g/litre of paint mixture. VOC content of the paint mixture (thinned 20% by volume) is 454 g/l. Only for industrial use.
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.

pro300915/tmk050515/67V-s., 008 7640

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.