Temadur SR 90

DESCRIPTION

A two-component, scratch resistant, high gloss, fast drying polyurethane topcoat.

PRODUCT FEATURES AND RECOMMENDED USES

- Forms a hard, durable, mechanically and scratch resistant paint film. As a flexible product, it withstands mechanical impact and micro deformation of the structure typically met in e.g. agriculture, earth moving and transportation equipment. Therefore Temadur SR 90 helps to prevent imperfections for a long time.
- Provides a weather resistant, flawless finish with minimum colour fading over the years. The gloss of the paint film and low haze will ensure an aesthetically pleasing appearance of your asset.
- Helps to increase throughput time as the painted objects can be handled and assembled sooner after application. The product helps to maximise the efficiency of production lines saving thus both costs and time.
- Can be applied with all common spraying equipment including electrostatic spraying. Therefore Temadur SR 90 is an ideal solution for objects with complicated shapes that are difficult to reach
- Forms an easy-to-clean and non-chalking topcoat.
- Recommended especially for original equipment manufacturing, such as agricultural machinery and haulage equipment.

TECHNICAL DATA

Volume solids

53±2% (mixture, ISO 3233)

Weight solids

64±2% (mixture)

Specific gravity

1.2±0.1 kg / l (mixture)

Mixing ratio

Base	3 parts by volume	Temadur SR 90
Hardener	1 part by volume	008 7590

Pot life (+23°C)

2 hours, 20% thinned mixture

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
75µm	40µm	13.3 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 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 40µm	+5°C	+10°C	+23°C	+35°C
Dust dry, after	45min	30min	20min	10min
Touch dry, after	12h	8h	4h	2½h
Recoatable, after	No limitations			

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	Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.
Gloss	High gloss.
Color shades	RAL, NCS, SSG, BS, Monicolor Nova and Symphony colour cards. Temaspeed Premium tinting.

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APPLICATION INSTRUCTIONS

Surface preparation

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 GF Primer, Temadur 10.

Recommended topcoats

Temadur SR 90.

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 +5ºC 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

In order to obtain an even, non-porous finish, spray a misty coat: first a thin layer, then let the solvents evaporate for 5–30 minutes and then apply the full coat.

For airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 10–30% to the viscosity 20–25s (DIN4). Recommended nozzle tip is 0.011"–0.013" and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object.

For air-assisted airless spraying, the product is thinned depending on the temperature of the components (base, hardener, thinner) approximately 10–30% to the viscosity 20–25s (DIN4). Recommended nozzle tip is 0.011"–0.013" and pressure 120–160 bar. Atomising air pressure should be 1–3 bar. Spray angle shall be chosen according to the shape of the object.

For conventional spraying, the product is thinned to the viscosity 20–25s (DIN4). Recommended nozzle tip is 1.2–1.8 mm and pressure 3–4 bar.

Thinners

Thinner 1048, Thinner 1067

Cleaning of equipment

Thinner 1048, Thinner 1067

VOC

The Volatile Organic Compounds amount (ISO 11890) is 425 g/litre of paint mixture.
VOC content of the paint mixture (thinned 30% by volume) is 535 g/l.
Directive 2004/42/EC is not applicable in the use of the product.

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 use only.

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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.