

Temaspart HS-SC 80

DESCRIPTION

A two-component, fast-drying high build direct-to-metal high gloss polyaspartic paint, hardener aliphatic isocyanate.

PRODUCT FEATURES AND RECOMMENDED USES

- Maximises production throughput at normal room temperature conditions without the need for forced drying at higher temperatures. This results in lower energy costs in painting facilities. Drying time is significantly shortened by elevating relative humidity, which is much more cost-efficient than increasing temperature.
- Has been specially developed to be used as a direct-to-metal paint. The product adheres extremely well to the blasted surface and forms a tight, scratch resistant protective paint film. Accelerated corrosion tests have proven that the product is a perfect solution for prolonging the service life of agricultural, construction and earth-moving machinery even in higher corrosive environments.
- As a high-solids, VOC-compliant product, Temaspart HS-SC 80 meets the ever-growing environmental demands. Using Temaspart HS-SC 80 instead of conventional primer-topcoat systems will result in a remarkable reduction in solvent emissions. Temaspart HS-SC 80 has less environmental impact than traditional solvent-borne paints.
- Provides the best balance between sag resistance and levelling. Due to its high film-building properties, Temaspart HS-SC 80 can be applied in a thick layer in one pass, which enables shorter application process.
- Excellent weathering and abrasion resistance. A durable, easy-to-clean and non-chalking paint with excellent gloss and color retention.
- Recommended to be used especially as a single-coat finish for agricultural and earth-moving machinery and other machinery and equipment.

TECHNICAL DATA

Volume solids 82±2% (mixture, ISO 3233)

Weight solids 88±2% (mixture)

Specific gravity 1.5±0.1 kg/l (mixture)

Mixing ratio Base 3 parts by volume Temaspart HS-SC 80
Hardener 1 part by volume 008 7730

Pot life 30 min (+20°C / RH 45%)

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
120µm	100µm	8.2 m²/l
195µm	160µm	5.2 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.



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Drying time

DFT 145µm	+23°C / RH 20%	+23°C / RH 50%	+23°C / RH 80%
Dust dry, after	50 min	40 min	15 min
Touch dry, after	75 min	50 min	30 min

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	<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 necessary for cold rolled steel to improve adhesion. In order to get the best performance the surface profile should be medium grit. (ISO 8503-2)</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 GPL-S Primer, Temacoat HS-F Primer, Temanyl PVB Grey, Temakeep.
Recommended topcoats	Temaspart HS-SC 80. See Application.
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 or drying. The surface temperature of the 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>Application with airless spray dual feed equipment is recommended. Recommended nozzle tip is 0.011"–0.015" and pressure 120–200 bar. Spray angle shall be chosen according to the shape of the object. The product is thinned 0–10%.</p> <p>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"–0.017" and pressure 160–240 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 1.6-2.0 mm and pressure 3–4 bar.</p> <p>In order to reach the best possible result it is recommended to apply only one layer. Sanding prior to next application is needed before the second layer.</p>
Thinners	Thinner 1048
Cleaning of equipment	Thinner 1048
VOC	The Volatile Organic Compounds amount is 170 g/litre of paint mixture. VOC content of the paint mixture (thinned 15% by volume) is 265 g/l. VOC 2004/42/EC (cat A/j) 500 g/l (2010)

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.



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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.