Temazinc 77

DESCRIPTION

A two-component, polyamide cured zinc richepoxy paint.

PRODUCT FEATURES AND RECOMMENDED USES

- Contains over 80% zinc and fully meets the requirements of the standard ISO 12944-5 for zinc-rich primers. The primer provides good cathodic protection for steel.
- Used in coating systems where extended durability is required.
- Used as a primer in epoxy, polyurethane, acrylic and chlorinated rubber systems for steel surfaces exposed to severe climatic conditions.
- Can be used without a topcoat on surfaces exposed to weathering.
- Environmental product declaration (EPD) in accordance with EN 15804+A2 & ISO 14025 / ISO 21930.
- Recommended for bridges, cranes and steel frameworks as well as steelwork and equipment in the forest and chemical industries, such as tubular bridges, conveyors etc.

TECHNICAL DATA

Volume solids

52±2% (mixture, ISO 3233)

Specific gravity

2.0 kg / l (mixture)

Mixing ratio

Base	3 parts by volume	Temazinc 77
Hardener	1 part by volume	008 7440

Pot life (+23°C)

16 hours

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
75µm	40µm	13.0 m²/l
155µm	80µm	6.5 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	50min	20min	10min	5min
Touch dry, after	2h	1h	30min	15min
Recoatable, after	5h	3h	1h	30min

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

Gloss	Matt.
Color shades	Grey

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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) In order to get the best performance the surface profile should be medium grit. (ISO 8503-2)

Recommended topcoats

Temacoat GPL-S Primer, Temacoat GF Primer, Temacoat GPL-S MIO, Temacoat GS 50, Temacoat RM 40, Temacoat HB 30, Temacryl AR 50, Temacoat Primer, Temacoat HS-F Primer, Temacoat SPA 50, Temacoat 50, Temabond ST 200, Temabond ST 300, Fontecoat EP 50 Beige.

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.

Note! There is a natural tendency of this coating to chalk, discolor or yellow unevenly. It is recommended to use polyurethane topcoat when there are high aesthetical requirements on color appearance.

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 0–5%. Agitate during application. Recommended nozzle tip is 0.015"–0.021" and pressure 120–180 bar. Spray angle shall be chosen according to the shape of the object.

For brush application product should be thinned according to the circumstances.

Sharp edges, corners, weld seams and other areas difficult to cover properly by spray application should be coated by brush before the spray application.

Thinners

Thinner 1031

Cleaning of equipment

Thinner 1031

VOC

The Volatile Organic Compounds amount is 480 g/litre of paint mixture.
VOC content of the paint mixture (thinned 5% by volume) is 495 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 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.