

Temasilox

DESCRIPTION

A high performance, isocyanate free two-component, high-solids and high-gloss polysiloxane topcoat with excellent color and gloss retention.

PRODUCT FEATURES AND RECOMMENDED USES

- Excellent anticorrosive properties. When applied in two-coat system on zinc rich primer, corrosivity class C5 can be achieved
- Isocyanate free topcoat. Does not generate any di-isocyanates during cutting, welding or in a fire
- As a high-solids, VOC compliant product Temasilox meets even the most stringent environmental demands
- Higher UV-resistance than with conventional topcoats
- Offers significant savings with regard to maintenance costs
- Easy to apply on large surfaces due to long open time of the paint film
- No need for evaporation of solvents before opening
- Rapidly ready for service
- The product is approved to be used as a topcoat in pre-qualified systems according to NORSOK M-501, system 1, rev.6
- Can also be used as a single-coat finish on blast cleaned or phosphated steel. On blast cleaned steel even corrosivity category C4 is possible
- Recommended to be used as an isocyanate free finishing coating for steel structures for bridges, tanks, pipes, buildings, power plants, offshore structures and other structures that require long durability in severe corrosive atmospheric areas

TECHNICAL DATA

Volume solids 87±2%

Weight solids 91±2%

Specific gravity 1.5±0.1 kg / l (mixed)

Mixing ratio Base 2 parts by volume Temasilox
Hardener 1 part by volume 008 7601

Pot life 2 hours (+23°C)

Recommended film thicknesses and theoretical coverage

| Recommended film thicknesses | | Theoretical coverage |
|------------------------------|-------|----------------------|
| wet | dry | |
| 90µm | 80µm | 10.9 m²/l |
| 140µm | 120µm | 7.3 m²/l |
| 170µm | 150µm | 5.8 m²/l |

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Drying time

| DFT 120 µm | +5°C | +10°C | +23°C | +50°C | +70°C |
|----------------------|------|-------|-------|-------|-------|
| Dust dry, after | 1½h | 1h | 30min | - | - |
| Touch dry, after | 2h | 1½h | 1h | - | - |
| Dry to handle, after | 8h | 5½h | 3h | 1h | 25min |



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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–+100°C, use flash-off time between 0–15 minutes, depending on the wet film thickness and the actual temperature.

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 recommended for cold rolled steel to improve adhesion.</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 Primer, Temasil 90, Temazinc 77, Temazinc 99, Fontecoat EP 50 Beige, Temacoat HS-F Primer. |
| Recommended topcoats | Temasilox. |
| 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 | <p>For airless spraying, the product is thinned approximately 0–5% depending on the temperature of the components and shape of the object. 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. Do not use worn-out nozzle.</p> <p>For air-assisted airless spraying, the product is thinned approximately 0–5% depending on the temperature of the components and shape of the object. Recommended nozzle tip is 0.011"–0.015" and pressure 160–200 bar. Atomising air pressure should be 1–3 bar. Spray angle shall be chosen according to the shape of the object. Do not use worn-out nozzle.</p> <p>In order to reach DFT 120 µm it is recommended to use "wet-on-wet" technique: first layer 100–125 µm WFT and then let the solvents evaporate for 5–15 minutes and apply the full coat. Misty first layer may result in orange peel.</p> <p>For brush application the product should be thinned according to the circumstances.</p> |
| Thinners | Thinner 1048, Thinner 1061 |
| Cleaning of equipment | Thinner 1048 or Thinner 1061. |
| VOC | The Volatile Organic Compounds amount (ISO 11890) is 130 g/litre of paint mixture. VOC content of the paint mixture (thinned 5% by volume) is 170 g/l. |
| HEALTH AND SAFETY | <p>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.</p> <p>A health and safety data sheet is available on request from Tikkurila Oyj.</p> <p>For industrial and professional use only.</p> |



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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.