



# Temaline TL

## DESCRIPTION

A two-component, solvent free epoxy coating.

## PRODUCT FEATURES AND RECOMMENDED USES

- Suitable to be used as a heavy duty coating on steel surfaces exposed to abrasion and chemical and mechanical stress in immersion
- Good resistance to dilute solutions of non-oxidizing acids, alkali and salts in immersion
- Resistance to chemicals is specified separately for each particular case
- Suitable for coating of lead-free gasoline tanks
- Due to CE marking also suitable for concrete surfaces
- Recommended for oil storage tanks, cisterns and basins in the forest industry, chemical industry and sewage purification plants etc

## TECHNICAL DATA

**Volume solids** approx. 100% (ISO 3233)

**Weight solids** approx. 100%

**Specific gravity** 1.3 kg/l (mixed)

**Mixing ratio** Base 2 parts by volume Temaline TL  
Hardener 1 part by volume 008 7067

**Pot life (+23°C)** ½ hour

## Recommended film thicknesses and theoretical coverage

| Recommended film thicknesses |       | Theoretical coverage  |
|------------------------------|-------|-----------------------|
| wet                          | dry   |                       |
| 250µm                        | 250µm | 4.0 m <sup>2</sup> /l |
| 500µm                        | 500µm | 2.0 m <sup>2</sup> /l |

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

## Drying time

| DFT 250µm                         | +10°C | +23°C | +35°C |
|-----------------------------------|-------|-------|-------|
| Dust dry, after                   | 8h    | 6h    | 2h    |
| Touch dry, after                  | 30h   | 16h   | 8h    |
| Recoatible without sanding, after | 8–48h | 6–24h | 2–10h |
| Fully cured, after                | 14d   | 7d    | 3d    |

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

## Gloss

Full gloss.

## Color shades

Grey. The colour is liable to change when exposed to light or chemicals

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## APPLICATION INSTRUCTIONS

|                               |   |
|-------------------------------|---|
| <b>Surface preparation</b>    | <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) The surface profile must be minimum medium (G). (ISO 8503-2)</p> <p>Concrete surfaces: The surface must be dry and at least 4 weeks old. The relative humidity of the concrete should not exceed 97%. Remove any splashes and unevennesses by grinding. Remove laitance and form oil from concrete castings by sanding or blast cleaning. Any cracks, crevices and voids must be repaired with a mixture of Temaline TL and fine dry quartz sand.</p>   |
| <b>Recommended primers</b>    | <p>Temaline TL.</p> <p>Steel surfaces: TEMALINE TL<br/>Concrete surfaces: Impregnation with 30% thinned TEMALINE TL</p>   |
| <b>Recommended topcoats</b>   | <p>Temaline TL.</p> <p>Steel surfaces: 1 x TEMALINE TL<br/>Concrete surfaces: 2 x TEMALINE TL</p>   |
| <b>Application conditions</b> | <p>All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +10°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.</p> <p>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.</p>   |
| <b>Mixing components</b>      | <p>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.</p>   |
| <b>Application</b>            | <p>Application with a dual feed hot airless spray equipment with a pressure ratio of at least 45:1 and a theoretical litre capacity of at least 8 l/min. Optimum spray temperature is around 50°C at the nozzle, starting temperature about 40°C. Airless spray nozzle tip 0.018"–0.027" and nozzle pressure 180–200 bar. Spray angle shall be chosen according to the shape of the object. Use of a reverse nozzle is recommended.</p> <p>Sharp edges, corners, weld seams and other areas difficult to paint should be painted by brush prior to spray application.</p> <p>Note! Pot life of the mixture is about 30 min at +23°C and about 5min at +40°C. Avoid to let the mixture cure in hoses, pump or spray gun.</p> |
| <b>Thinners</b>               | <p>Thinner 1031</p> <p>Thinner 006 1031 or acetone.</p>   |
| <b>Cleaning of equipment</b>  | <p>Thinner 006 1031 or acetone.</p>   |
| <b>VOC</b>                    | <p>Does not contain Volatile Organic Compounds.</p> <p>VOC content of the paint mixture (thinned 10% by volume) is 80 g/l.</p>  |



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### 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.**

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.

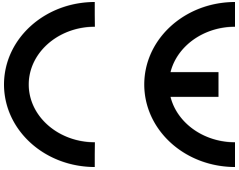
In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.

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## EN 1504-2:2004

The European harmonized product standard EN 1504-2:2004 defines the requirements for surface protection systems for concrete.

This product is tested and CE-labelled in accordance with the tables 1d, 1f and 1g in the appendix ZA.

|   |  |
|---|--|
|  |  |
| 0809  |  |
| Tikkurila Oyj<br>Kuninkaalantie 1<br>FI-01300 VANTAA                              |  |
| 14  |  |
| 0809-CPD-0773   |  |
| TIK-8700-5065   |  |
| EN 1504-2:2004  |  |
| Product for protection and repair of concrete structures – Coating.               |  |
| Permeability to CO <sub>2</sub>   | s <sub>D</sub> > 50 m                        |
| Impact resistance   | Class I: ≥ 4 Nm                              |
| Capillary absorption and permeability to water                                    | w < 0,1 kg/m <sup>2</sup> · h <sup>0,5</sup> |
| Abrasion resistance   | < 3000 mg                                    |
| Reaction to fire  | F(NPD)                                       |
| Adhesion strength by pull off test  | ≥ 2,0 N/mm <sup>2</sup>                      |
| Release of dangerous substances   | NPD  |
| Permeability to water vapour  | Class II, 5 m < s <sub>D</sub> < 50 m        |
| Resistance to severe chemical attack  | Class II                                     |