

# Temaline TL - Epoxy coating

## DESCRIPTION

A two-component, solvent-free epoxy coating.



## PRODUCT FEATURES

Recommended for oil storage tanks, cisterns and basins in the forest industry, chemical industry and sewage purification plants etc. Due to CE marking also suitable for concrete surfaces.

## Recommended uses

Suitable to be used as a heavy duty coating on steel surfaces exposed to abrasion and chemical and mechanical stress in immersion. Suitable for coating of lead-free gasoline tanks.

## TECHNICAL DATA

### Features

Good resistance to dilute solutions of non-oxidizing acids, alkali and salts in immersion. Resistance to chemicals is specified separately for each particular case.

### Colour Range

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

### Gloss groups

Gloss

### Coverage

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

### Thinner

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.  
1031

### Mixing ratio

Base 2 parts by volume 008 7065  
Hardener 1 part by volume 008 7067

### Application method

Dual feed hot airless spray.

### Pot-life (+23°C)

½ hour

### Drying times

DFT 250 µm	+ 10 °C	+ 23 °C	+ 35 °C
Dust dry, after	8 h	6 h	2 h
Touch dry, after	30 h	16 h	8 h



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Recoatable without sanding, after	8 - 48 h	6 - 24 h	2 - 10 h
Fully cured, after	14 d	7 d	3 d

Solids volume

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation. about 100 % volume (ISO 3233)

Density

about 100 % weight

Product code

1.3 kg / l (mixed)

008 7065

### APPLICATION DETAILS

Application conditions

All surfaces must be dry. The temperature of the ambient air, surface or paint should not fall below +10°C during application and drying. Relative humidity should not exceed 80%. The surface temperature of the steel should remain at least 3°C above the dew point. Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)

Steel surfaces: Blast clean to grade Sa2½. (ISO 8501-1)

Preparation

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 or voids must be repaired with a mixture of TEMALINE TL and fine dry quartz sand.

Priming

Steel surfaces: TEMALINE TL

Concrete surfaces: Impregnation with 30% thinned TEMALINE TL

Finishing

Steel surfaces: 1 x TEMALINE TL

Concrete surfaces: 2 x TEMALINE TL

Painting

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.

Sharp edges, corners, weld seams and other areas difficult to paint should be painted by brush prior to spray application.

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Mixing of components

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. First stir base and hardener separately. The correct proportions of base and hardener must be mixed thoroughly before use. Use mechanical mixers for mixing.

Cleaning of tools

Thinner 006 1031 or acetone.

EU VOC 2004/42/EC-limit value

Does not contain Volatile Organic Compounds.

VOC content of the paint mixture (thinned 10% by volume) is 80 g/l.

### HEALTH AND SAFETY

#### LABELLING

according to Regulation (EC)

No. 1272/2008

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.

Safety data sheet

 [Temaline TL](#)

Thinner safety data sheet

 [Temaline TL](#)


Hardener safety data sheet

 [Temaline TL](#)

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CE

Surface protection product - coating

 0809	
Declaration of performance: TIK-8700-5065	
14	
0809-CPD-0773	
EN 1504-2:2004	
Product for protection and repair of concrete structures – Coating	
Abrasion resistance	
Permeability to CO <sub>2</sub>	CO <sub>2</sub> S <sub>D</sub> > 50 m



## Temaline TL - Epoxy coating

Water absorption	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Impact resistance	Class I: $\geq 4 \text{ Nm}$
Adhesion strength by pull off test	$\geq 2,0 \text{ N/mm}^2$
Permeability to water vapour	Class II, $5 \text{ m} < s_D < 50 \text{ m}$
Reaction to fire	F(NPD)
Release of other dangerous substances	
- of heavy metals and specific elements	NDP

The above information, based on laboratory tests and practical experience, has been proved valid at the date marked on the product data sheet. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As a manufacturer we cannot be responsible for any damages caused by using the product against our instructions or for inappropriate purposes.

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