

## Temaline NL

### DESCRIPTION

A two component epoxy coating with a low solvent content.

### PRODUCT FEATURES AND RECOMMENDED USES

- ◆ Excellent resistance to abrasion.
- ◆ Can be applied by standard airless spray equipment.
- ◆ Recommended for steel and concrete surfaces exposed to heavy abrasion and chemical stress.
- ◆ Resistance to chemicals is specified separately for each particular case.
- ◆ Withstands +150 °C dry heat and + 60 °C in immersion.
- ◆ Suitable for navigation markers, sluices, interiors of coal, wood chip and peat containers, and other surfaces exposed to heavy mechanical abrasion.

### TECHNICAL DATA

**Volume solids** 92 ± 2 %. (ISO 3233)

**Weight solids** 95 ± 2 %.

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

**Mixing ratio and product codes**

Base	2 parts by volume	110-series
Hardener	1 part by volume	008 6880

**Pot life** 45 min. (23 °C)

### Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
dry	wet	
185 µm	200 µm	5.0 m <sup>2</sup> /l
370 µm	400 µm	2.5 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 times

DFT 250 µm	+ 10 °C	+ 23 °C	+ 35 °C
Dust dry, after	6 h	2 - 3 h	1½ h
Touch dry, after	20 h	12 h	5 h
Recoatable without sanding, after	8 - 72 h	4 - 48 h	2 - 24 h
Fully cured, after	14 d	7 d	3 d

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

**Finish** Glossy.

**Colours** White, black, grey and shades of MKH. Other colours for request.

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## APPLICATION DETAILS

<b>Surface preparation</b>	Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)	
	<u>Steel surfaces:</u> Blast clean to grade Sa2½. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.	
	<u>Concrete surfaces:</u> 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 NL and fine dry quartz sand.	
<b>Primer</b>	Steel surfaces:	TEMALINE NL
	Concrete surfaces:	Impregnation with 30 % thinned TEMALINE NL
<b>Finish</b>	Steel surfaces:	1 x TEMALINE NL
	Concrete surfaces:	1 - 2 x TEMALINE NL
<b>Application conditions</b>	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.	
<b>Mixing components</b>	First mix the base and a necessary amount of thinner using mechanical stirring. Then add the pre-mixed hardener. The correct proportions of base and hardener must be mixed thoroughly before use. Use Temaspeed Squirrel Mixer for mixing.	
<b>Application</b>	Application with a standard airless spray or a dual feed hot airless spray. Optimum spray temperature is around 40 - 50 °C. When necessary, heat the hoses. For repair painting of small areas the coating can be thinned 5 %. Airless spray nozzle tip 0.018" - 0.025". Spray angle shall be chosen according to the shape of the object. It is recommendable to use a reverse nozzle. Sharp edges, corners, weld seams and other areas difficult to paint should be painted by brush prior to spray application. For patching up small areas, the coating can be thinned abt. 5 %.	
	<b>Note!</b> Pot life of the mixture is about 45 min. at + 23 °C and about 5 min. at + 40 °C. Avoid to let the mixture cure in hoses, pump or spray gun.	
<b>Thinner</b>	Thinner 1031.	
<b>Cleaning of equipment</b>	Thinner 1031.	
<b>VOC</b>	The Volatile Organic Compounds amount is 90 ± 20 g/litre of paint mixture. VOC content of the paint mixture (thinned 30 % by volume) is 270 g/l.	
<b>HEALTH AND SAFETY</b>	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.	

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