

## Technical Data

# Normafloor 105 Primer

## PROPERTIES AND RECOMMENDED USAGE

### Paint type:

Normafloor 105 Primer is a two component priming lacquer to concrete surfaces. It is based on epoxy resin.

### Typical uses:

Normafloor 105 Primer is suitable as primer for both old and new concrete floors, concrete elements, concrete walls and basins under Normafloor epoxy coatings. Applied once, Normafloor 105 Primer is suitable as a dustbinder and applied twice, as a concrete lacquer.

### Special use:

NORMAFLOOR 105 PRIMER can be used on newly laid concrete as a liquid membrane to make the curing of the concrete as good as possible by preventing the evaporation of water.

### Applications:

Normafloor 105 Primer is being used in chemical process plants, paper machine halls, warehouses, garages and on balconies. The primer can also be used in concrete pulpers, waste water basins and also on various concrete surfaces in the food industry.

### Chemical resistance:

Used in recommended paint systems and correctly applied Normafloor 105 Primer withstands water as well as splashes and spillage of different kind of process chemicals.

## TECHNICAL DATA

Volume solids:	approx. 100 vol. %
Total mass of solids*:	approx. 1100 g/l
VOC value*:	approx. 0 g/l

\*Values are calculated.

### Sekoitussuhde:

Resin	2 parts by volume
Cure	1 part by volume

### Pot life (+23 °C):

Approx. 40 minuuttia after mixing

### Drying times:

	+15 °C	+23 °C
Surface dry	7 h	5 h
To walk on	24 h	20 h
To recoat	8-30 h	6-24 h
Fully cured	10 d	7 d

**Coverage:**

3-8 m<sup>2</sup>/l

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**Practical coverage:**

Depends on method of application, temperature and on the porosity of the surface.

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**Colour:**

Yellowish

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**Thinner:**

OH 13 or OH 17

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**Cleaner:**

OH 17

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## APPLICATION INSTRUCTIONS

**Surface preparations:**

**New concrete surfaces:** The surface that is to be coated must be hard and strong enough (the surface should have reached at least 80 % of its final strength) and additives such as melamine resins, silicones or silicates that might decrease the adhesion or absorption of the primer, must not be used. Loose concrete, laitance, residues of plastic dispersions and waxes should be removed from the concrete surface after it has been allowed to cure 1-2 days. Suitable methods are grit or sand blasting, grinding and/or acid solution wash (20 % hydrochloric solution). After an acid solution wash the surface should be rinsed with fresh water. An acid solution wash is not recommended if the surface will be exposed to heavy chemical stresses, immersion service or with floating concrete.

**Old concrete surfaces:** Old paint and coatings should be removed by grinding or grit or sand blasting. Surfaces that are contaminated by oils and fats should in addition be flame cleaned. Possible laitance removal as for new concrete surfaces.

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**Environmental conditions during application:**

During application the temperature of the primer, air and surface should be between min. +5 °C and max. +32 °C.

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**Concrete curing with Normafloor 105 Primer:**

The application of NORMAFLOOR 105 PRIMER can take place as soon as the concrete has dried so much that a water film no longer exists on the surface. Possible laitance should be removed by brushing or by light grinding. On vertical surfaces any moulding forms should be taken off within 3 days. Burrs and spills should be removed before applying the primer. If needed moisturise with water.

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**Mixing the components:**

The pre-mixed cure is added to the resin during thorough mixing **in a clean mixing vessel**, with mechanical blender, shortly before the application. Add Thinner OH 17 (5-30 %) thorough mixing if needed.

**Note.** The pot life of the mixture is approx. 40 minutes (+23 °C).

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## Priming:

Before priming, the surface can be dampened with fresh water to improve the penetration. **The concrete must not be covered with a water film during application.** The Normafloor 105 Primer is to be applied by a mohair roller or brush. Areas where too much primer has been applied or where the primer has sagged or run should be smoothed out before the primer cures. Areas where too little primer has been applied can be repaired/recoated within 1 to 16 hours. **If there are thick films, the product stays elastic. For this reason it should not be used to fillings.** In order to ensure the best possible performance of the product, it is recommended that the paint is at room temperature before the application.

## Storage and shelf life:

The product must be stored in original sealed containers at temperatures from 5 °C to 30 °C. The storage conditions are to keep the containers in a dry, well ventilated space away from source of heat and ignition. When stored as described above, the unopened component A will keep up to **1 years** and unopened component B to **2 years** from the date of manufacture. The date of manufacture is indicated in the label of the paint can as a batch date.

## CE marking:

	
<b>0416</b>	
Nor-Maali Oy Vanhatie 20 15240 Lahti, Finland Declaration of performance No. NOR1-0114 NOR2-0114 NOR3-0114	
0416-CPR-7826 EN 1504-2:2004 Surface protection products - Coating Physical resistance (5.1) Chemical resistance (6.1)	
Abrasion resistance	Weight loss < 3000 mg
Capillary absorption and permeability to water	$w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Resistance to severe chemical attack	See chemical resistance list
Impact resistance	Class II: $\geq 10 \text{ Nm}$
Adhesion strength by pull-off test	$\geq 2,0 \text{ N/mm}^2$
Dangerous substances	See safety data sheet

**Safety:**

Please follow the environmental and safety instructions displayed on the container and Safety Data Sheet. Use under well ventilated conditions. Do not breathe or inhale mist, use respirator mask. Avoid skin contact. Spillage on the skin should immediately removed with suitable cleanser, soap or water. In case of contact with eyes, rinse immediately with plenty of clean water and if necessary seek medical advice.

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***DISCLAIMER:** The above information is given to the best of our knowledge based on laboratory tests and practical experience. However, as the paint is often used under conditions beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without notice. Please contact our office for more specific information.*

**Technical Data Sheet 3/14**

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