

NORMAFLOOR 105 GPR

TECHNICAL DATA SHEET 8/20

PROPERTIES AND RECOMMENDED USAGE

Paint type

NORMAFLOOR 105 GPR is a two component epoxy priming lacquer for concrete surfaces.

Typical and recommended uses


NORMAFLOOR 105 GPR 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 GPR is suitable as a dustbinder and applied twice, as a concrete lacquer.

Special use

NORMAFLOOR 105 GPR 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. Suitable for concrete surfaces with capillary pressure from the opposite side.

Applications

NORMAFLOOR 105 GPR 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.

	
Nor-Maali Oy Vanhatie 20 15240 Lahti, Finland DoP Nr. NOR1-0420, NOR2-0420, NOR3-0420 0416-CPR-7826	
EN 1504-2:2004 Surface protection products - Coating Physical resistance (5.1)	
Abrasion resistance	Weight loss < 3000 mg
Capillary absorption and permeability to water	W ₃ (w < 0,1 kg/m ² ·h ^{0.5})
Impact resistance	Class II: ≥ 10 Nm
Adhesion strength by pull-off test	≥ 2.0 N/mm ²
Dangerous substances	See safety data sheet

TECHNICAL DATA

Volume solids*	85 ± 2 %
Total mass of solids*	940 g/l
VOC value*	138 g/l

* Values are calculated

Mixing ratio

Resin	2 parts by volume
Cure	1 part by volume

Pot life (+23 °C)

approx. 40 min after mixing

Packaging

	Volume (l)	Size of container (l)
Comp A	6	10
Comp B	3	3

Drying time

	+5 °C	+10 °C	+15 °C	+23 °C
To walk on	36 h	22 h	13 h	8 h
To recoat with epoxy (min)	20 h	12 h	8 h	3 h
To recoat with epoxy (max)	-	-	-	4 d
To recoat with PUR (min)	25 h	15 h	10 h	4 h
To recoat with PUR (max)	-	-	-	4 d
Fully cured	14 d	12 d	10 d	7 d

Drying times are typical on recommended film thicknesses at given temperatures.

Coverage

3 - 8 m²/l

Practical coverage

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

Colour

Yellowish

Thinner

OH 17

Cleaner

OH 17

APPLICATION INSTRUCTIONS

Surface preparations

New concrete surfaces

The surface to be coated must be hard and strong enough (the surface should have reached at least 80 % of its final strength). 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.

Environmental conditions during application

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

Concrete curing with Normafloor 105 GPR

The application of NORMAFLOOR 105 GPR 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.

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. The product is intended for professional use only. If there are deviations in the different language versions of the technical data sheets, the English version applies.

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 (0 - 10 %) if needed. Remember to mix thoroughly.

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

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 GPR 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. The product is not solvent-free and for this reason it should not be used in 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 3 years and unopened component B to 3 years from the date of manufacture. The manufacturing date found in the label is also the batch number of the paint.

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.