

NORMAFLOOR AQUA

TECHNICAL DATA SHEET 10/23

PROPERTIES AND RECOMMENDED USAGE

Paint type

Quick drying, water-borne two-component epoxy coating with polyamine adduct curing agent.

Typical and recommended uses

Used for the protection of light mechanical and chemical wear on concrete floors. Floors of public places, warehouses, basements, garages, ice rinks, factories and paper machine halls.

Chemical resistance

Used in recommended paint systems, and correctly applied withstands occasional splashes and spillage of water, oil and weak process chemicals.


Colour

Standard colours: RAL 7032, RAL 7035, RAL 7038.

Other colours with limitations. More information from Nor-Maali Oy's sales department. Note! Colour darkens when it dries. The objects painted with the same shade, but using different paint types, might have differences in the appearance and shade due to the variation in the paint properties, gloss levels and application methods.

Approved as belonging to emission class M1 for building materials



	
Nor-Maali Oy Vanhatie 20 15240 Lahti, Finland 23 DoP Nr. NOR7-0323 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 I: ≥ 4 Nm
Adhesion strength by pull-off test	≥ 2.0 N/mm ²
Dangerous substances	See safety data sheet

TECHNICAL DATA

Volume solids*	46 ± 2 %
Total mass of solids*	711 g/l
VOC value*	55 g/l

* Values are calculated

Mixing ratio

Resin	4 parts by volume
Cure	1 part by volume

Pot life (+23 °C)

approx. 1.5 h after mixing

Packaging

	Volume (l)	Size of container (l)
Comp A	8	10
Comp B	2	3

Drying time 60 µm

	+15 °C	+23 °C
Surface dry	30 min	20 min
Walk-on-dry	8 h	6 h
Fully cured	10 d	7 d

*More information about recoat interval in the section Method of application.

Drying times are typical on recommended film thicknesses at given temperatures. **Ventilation needs to be efficient enough. Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.** The maximum overcoating time with itself is 1 month without roughening provided the surface is free from dirt and grease.

Practical coverage on concrete surfaces

Priming	Top coat
4 - 6 m ² /l	7 - 9 m ² /l

Practical coverage depends on the method of application and the porosity of the surface. For exceptionally porous surfaces, priming two times is recommended.

Finish

Semigloss

Thinner

OH 00

Cleaner

Water

APPLICATION INSTRUCTIONS FOR CONCRETE SURFACES

New concrete surfaces

The concrete must be dry and at least 4 weeks old, and humidity no more than 4 % by weight. The floor humidity can be tested, if a humidity gauge is not available, by using a rubber mat. The colour of the floor under the rubber mat must not be darker than the rest of the floor after a 24 hour test. Additives such as melamine resins, silicones or silicates that might decrease the adhesion or absorption of the coating, must not be used. Loose concrete, laitance, residues of plastic dispersions and waxes should be removed from the concrete surface with abrasive blasting or grinding. If required a 15 - 20 % hydrochloric acid solution could be used. After etching, rinse the floor with water and allow to dry.

Old concrete surfaces

Grease and other dirt is removed from surfaces by emulsion cleaning. Grease removal can be made more effective by flame cleaning an old coating or laitance is removed by sand blasting, or grinding. After grinding, the cement dust is vacuumed or brushed away. Other methods as for 'New concrete surfaces'.

Previously coated surface

Normafloor Aqua can be applied over other types of paint, provided that the old paint has good adhesion to the substrate. If the floor will be attacked by water, the surface should be roughened up by grinding. After this the floor is washed and rinsed.

Primer

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Top coat

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Environmental conditions during application

The surface should be dry and clean. During application and drying time the temperature of the air and surface should be above 5 °C and the relative humidity below 50 %. The surface temperature should be min. 3 °C above the dew point of the air. **In order to ensure the best possible performance of the product, it is recommended that the paint is at room temperature (> 20 °C) before the application.**

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 mixing ratio is 4 : 1 (resin : cure) by volume. Thinning 0 - 5 % (OH 00). **Components are stirred mechanically first separately and then together thoroughly down to the bottom. Mixing time min. 2 - 3 minutes.** Insufficient mixing and/or incorrect mixing ratio will result in uneven curing and impaired film properties. Thinner will be added to the ready mixture. Pot life is 1.5 hours. **There is no visible pot life so the time has to be checked with a clock.** After 1.5 hours the mixture is not applicable for use.

Method of application

Priming: Thinned paint should be spread on the floor with a roller or a paint brush. The best result is achieved by using a felt or short-piled mohair roller.

Top coating: Dry to recoat, minimum: Walk-on-dry. The absorbency of the substrate can affect to the drying of the paint. Top coat is applied with a roller or a brush. The best result is achieved by using a felt or short-piled mohair roller. Thinning if needed.

Storage and shelf life

The product must be stored in original sealed containers at temperatures from 5 °C to 30 °C. **The product should not freeze.** The storage conditions are to keep the containers in a dry, well ventilated space away from the source of heat and ignition. When stored as described above, the unopened component A will keep up to 1 year and unopened component B to 1 year 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.