

EPOCOAT 210

TECHNICAL DATA SHEET 12/23

PROPERTIES AND RECOMMENDED USAGE ON CONCRETE SURFACES

Paint type

Epocoat 210 is a two component, fast drying, polyamide cured epoxy top coat.

Typical and recommended uses


Used for the protection of light mechanical and chemical wear on concrete floors. Storages, basements, stairs, garages, ice rinks, factories and paper machine halls.

Chemical resistance

Used in recommended paint systems and correctly applied Epocoat 210 withstands splashes and spillage of occasional water, oil and weak process chemicals.

Weather resistance

Epoxy paints have a natural tendency to chalk and discolor on exterior exposure.

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| Nor-Maali Oy Vanhatie 20 15240 Lahti, Finland 20 DoP Nr. NOR1-0420 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* | 53 ± 2 % |
| Total mass of solids* | 740 g/l |
| VOC value* | 420 g/l |

* Values are calculated

Mixing ratio

| | |
|-------|-------------------|
| Resin | 4 parts by volume |
| Cure | 1 parts by volume |

Pot life (+23 °C)

| | |
|------------------|--------------------------|
| Standard Comp. B | approx. 7 h after mixing |
| S-Comp. B | approx. 3 h after mixing |

Packaging

| | Volume (l) | Size of container (l) |
|--------|------------|-----------------------|
| Comp A | 8 / 16 | 10 / 20 |
| Comp B | 2 / 4 | 2 / 4.2 |

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

Drying time 70 µm

| Standard Comp. B | +23 °C |
|------------------|--------|
| Surface dry | 1.5 h |
| To touch | 8 h |
| To recoat | 8 h |
| Fully cured | 7 d |

Practical coverage on concrete surfaces

| Priming | Top coat |
|-----------------------|-----------------------|
| 4-7 m ² /l | 5-9 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.

Colour

RAL-, NCS-, KY-, SSG-colours with limitations. 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.

Roller thinner

OH 12

Cleaner

OH 17

Finish

Semigloss

APPLICATION INSTRUCTIONS FOR CONCRETE SURFACES

New concrete surfaces

The concrete must be dry and at least 4 weeks old, and humidity no more than 97 % (4 % by weight). If a humidity gauge is not available, the floor humidity can be tested 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. The concrete must be hard and strong enough (at least 80% of the final strength) and 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.

Old concrete surfaces

Grease and other dirt is removed from uncoated surfaces by emulsion cleaning. Grease removal can be made more effective by flame cleaning an old coating or laitance is removed by sand blasting, milling or grinding. Other methods as for 'New concrete surfaces'.

Primer

EPOCOAT 210, NORMAFLOOR 105 GPR
NORMAFLOOR 205

Top coat

EPOCOAT 210

Environmental conditions during application

The surface should be dry and clean. During application and drying time the temperature of the paint, air, and surface should be above +10 °C and the relative humidity below 80 %. The surface temperature should be min 3 °C above the dew point of the air. Exhaust gases during drying process may cause yellowing of the paint film.

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.

Method of application

Stir resin and cure separately and then mix both components thoroughly. The mixing ratio is 4 : 1 (resin : cure) by volume. If needed, 5 - 15 % thinner (OH 12) may be added. In order to ensure the best possible performance of the product, it is recommended that the paint is at room temperature before the application.

Priming concrete surfaces

Thinned paint should be spread on the floor with a steel spreader, mohair roller or a paint brush. If absorption is insufficient, repairing can be done after 8 hours (+23 °C). On a porous or new concrete surface the priming is performed with Normafloor 105 GPR epoxy primer.

Top coating concrete surfaces

The application of the coating is recommended to make within 8 h – 3 days after priming (+23 °C). The top coating is applied with 5 - 15 % thinned Epocoat 210. Epocoat 210 should be spread with a mohair roller or a paint brush.

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 2 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.