

FLORCOAT 590

2 component, epoxy coating, solvent free, gloss finish, coloured.

PRODUCT DESCRIPTION

FLORCOAT 590 is a colored, solvent free, two-component epoxy coating. It is resistant to petroleum oils, solvents, acids & alkalis and shows good wear and slip resistance.

In general, epoxy coatings are not colour stable if exposed to UV light or under influence of weathering.

We recommend to over-coat with a colour stable sealer.

FIELD OF APPLICATION

FLORCOAT 590 is suitable for use for protection of concrete surface against abrasion and chemicals in areas subject to foot and light vehicular traffic such as walkways, workshops, production facilities, warehouses, car park decks, garages, and plant rooms.

FEATURES AND BENEFITS

- **Durable** – 99% solids provide a 500 microns dried film thickness (two coat application).
- **High gloss finish** – aesthetically pleasing, easy to maintain.
- **Solvent free** – non-flammable.
- **Chemical resistant** – to petroleum oils, solvents, acids & alkalis.
- **Wear resistant** – hard wearing even in harsh and punishing environment.
- **Slip resistant** – can provide R11 to R13 rating with quartz aggregates.
- **Low / no odour** – does not taint food.
- **Aesthetic flexibility** – available in a variety of colours.



FLORTECH
FLOORING TECHNOLOGY

TECHNICAL DATA

Solid content	liquid mixture (A + B)	99 %
Density	liquid mixture (A + B) at 25 °C	1.46 g/cm ³
Viscosity	liquid mixture (A + B) at 25 °C	2000 – 3000 mPas
Adhesive strength	DIN ISO 4624	> 1.5 N/mm ² (concrete failure)
Shore D hardness	DIN EN ISO 88	Day 1 – 78 Day 7 – 83
Abrasion resistance	DIN EN ISO 5470 - 1	70 mg/ 1000 cycles (Taber CS10 wheel)
Packaging size	2 component	20 kg (16 kg Part A + 4 kg Part B) 5 kg (4 kg Part A + 1 kg Part B)
Mixing ratio	by weight in kg (A : B)	4 : 1
Working time	at 25 °C	approximately 25- 28 minutes
Application temperature	min. 3°C above dew point	10 - 30°C
Cure to withstand:	foot traffic heavy traffic exposure to chemical	after 12 -24 hours after 3 days after 7 days
Overcoating	at 25 °C	within 12 – 24 hours
Material consumption	on smooth surface on broadcasted surface	200 – 300 g/m ² 400 – 600 g/m ²
Storage	Dry at 10–30°C, avoid direct sunlight	
Shelf life	12 months in closed original container	

APPLICATION METHOD

1. Substrate preparation

The substrate must be firm, clean, dry and have a tensile strength of 1.5 N/mm² minimum.

Wet areas shall be dried with a blow torch. The moisture content in the substrate must not exceed 4 CM %.

New concrete must be allowed to cure for a minimum of 28 days.

Repair imperfections (holes and cracks) with an epoxy patching compound such as **FLORPRIME 110** where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.

Prepare substrate by Captive Shot Blasting or Diamond Grinding to provide the appropriate surface profile for optimum mechanical keying.

If **FLORCOAT 590** is used as a top coat over an existing EP or PU underlay / topping, it can be applied directly on the existing surface if the underlay / topping is newly laid (within 12 – 24 hrs) otherwise a light grinding is necessary.

2. Application

Before starting the application, the material temperature must be close to site conditions. Mix component A for 2-3 minutes.

Empty contents of component B (Hardener) into component A (Base Resin). Mix with a suitable mixer at a speed of 500 rpm to avoid incorporating excessive air into the mix. Mix for 2-3 minutes.

Transfer the mixture into another clean container and mix for 1-2 minute.

Spread the mixed product onto the surface with a squeegee and back roll with a short nap roller.

3. Overcoating

The second coat can be applied within 24 hours without grinding. If longer, the surface must be grinded before over-coating.

4. Care and maintenance

The lifespan & performance of your resin floor can be extended considerably by adopting a regular cleaning and care programme. We recommend the use of an alkaline based cleaning agent.

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As all FLORTECH data sheets are updated on a regular basis, it is user's responsibility to obtain the most recent issue. Hard copies are available upon request.