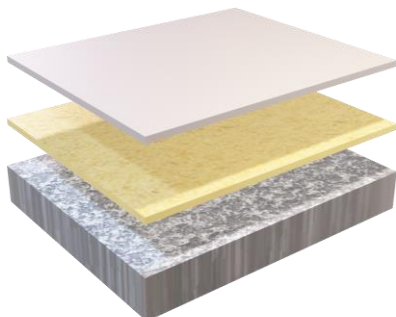


# FLORCOAT 590

*2 component, epoxy coating, solvent free, colored, semi-gloss.*

## SYSTEM BUILD UP



- Top Coat : Florcoat 590
- Primer : Florprime 112 FC, Florprime 180
- Substrate : Concrete, cementitious crete, magnesite creed, other moisture sensitive substrate.

## FEATURES

- **Chemical resistant** – to most solvents, acid and alkalis, and petroleum oils.
- **High solid** - It yields a dried film thickness of 500 microns when applied in two coats.
- **High gloss finish** – visually appealing and easy to maintain.
- **Solvent free** – nontoxic, nonflammable, environmentally friendly.
- **Good wear resistant** – durable and hard wearing even in harsh condition.
- **Low / no odour** – does not taint food.
- **Aesthetic flexibility** – available in variety of colours.

## APPLICATION AREAS

- **Florcoat 590** is two component, solvent free epoxy coating, which suitable for the protection of concrete surfaces against abrasion and chemical exposure in areas subjected to foot and light vehicular traffic.
- It can be applied at walkaways, workshops, car park decks, garages, warehouses, production facilities, and plant rooms.

## PHYSICAL PROPERTIES

Product type	2 component, solvent-free epoxy
Color	Flortech standard
Finish	Gloss
Solid contents, mixed	99 %
Density, mixed	1.43 g/cm <sup>3</sup> @ 25 °C
Viscosity, mixed	2000 - 3200 cps 25 °C

#### PERFORMANCE DATA

Adhesive strength	> 1.5 N/mm <sup>2</sup>	DIN ISO 4624
Shore D hardness	87 @ 7 <sup>th</sup> day	DIN EN ISO 88
Abrasion resistance	72 mg/1000 cycles, Taber CS 10 Wheels	DIN EN ISO 5470 - 1

#### PACKAGING

Components	Part A	Part B
TOTAL : 20 kg	16 kg	4 kg
TOTAL : 5 kg	4 kg	1 kg

#### APPLICATION GUIDE

Mixing ratio (by weight)	Part A : Part B 4 : 1	
Working time	Approximately 25-28 minutes @ 20 – 25 °C	
Application temperature	10 – 30 min °C (min 3 °C above dew point)	
Material consumption	0.2 – 0.3 kg/m <sup>2</sup> on smooth surface 0.40 – 0.60 kg/m <sup>2</sup> on broadcasted surface	
Following coating	Withing 24 hours @ 25 °C	
Curing time	@ 25 °C	
	Foot traffic	After 12 – 24 hours
	Light traffic	After 3 days
	Exposure to chemicals	After 7 days

#### SUBSTRATE REQUIREMENT & PREPARATION

- Concrete substrate must be clean, free of laitance and contaminants and have tensile
- For wet areas, use a blowtorch to ensure complete drying, and the substrate's moisture content should not exceed 4%.
- New concrete needs a minimum curing period of 28 days.
- Repair imperfections such as holes and cracks by using an epoxy patching compound like **Florprime 110** where necessary.
- Eliminate surface laitance, contaminants, coatings, curing compounds, and any loose or weak materials.
- Prepare the substrate by employing Captive Shot Blasting or Diamond Grinding to achieve the appropriate surface profile for optimal mechanical adhesion.
- When using **Florcoat 590** as a top coat over an existing EP or PU underlay/topping, it can be directly applied if the underlay/topping is newly placed (within 12-24 hours). However, if the time has passed, light grinding is necessary before application.

#### APPLICATION METHOD

- Prior to starting the application, ensure that the material temperature aligns with on-site conditions. The relative humidity should not exceed 85%.
- Pour the contents of component B (hardener) into component A (resin). Blend with an appropriate mixer at a speed of 500 rpm to prevent excessive air from getting into the mixture. Mix for 2 minutes.
- Transfer the blended mixture into a clean container and continue mixing for an additional 1-2 minutes.
- Apply the mixed product onto the surface using a squeegee and then follow with back-rolling using a short-nap roller.

#### OVERCOATING

- The second coat can be applied within 24 hours without the need for grinding.
- However, if more than 24 hours elapse, light grinding is necessary before applying the overcoat.

#### STORAGE & SHELF LIFE

Shelf Life	12 months in closed original container.
Storage	Dry, well-ventilated space and avoid direct sunlight @ 10 – 30 °C.

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