

FLORCOAT 800

2 comp, epoxy resin based coating, solvent free, coloured, semi-gloss

PRODUCT DESCRIPTION

FLORCOAT 800 is a two components epoxy based coating, water vapour permeable, coloured, with no/low odour and low VOC emission material. It is impervious to water and provides good chemical resistant towards fuels, lubricants and most solvents.

This product shows good weather resistance and UV stability compared to traditional epoxy systems.

FIELD OF APPLICATION

FLORCOAT 800 is designed for use as protective coating on concrete, brick, block work, steel, timber, and laminate surface. It is recommended to use in situations subject to water condensation, high water pressure cleaning and vehicular traffic. It is also recommended for use as wall coating in pharmaceutical and food manufacturing environments.

FEATURES AND BENEFITS

- **High solids** – durable, higher dry film thickness compared to traditional water based epoxy primer.
- **Chemical resistant** – towards petroleum oils, solvents and commercial cleaning agents.
- **Low VOC emission** – less impact on air quality.
- **Impervious to water.**
- **High water vapour permeability** – does not blister in situation subject to hydrostatic pressure.
- **Low/no odour** – does not taint food.
- **Solvent free** – non flammable, non-toxic and environmentally friendly.
- **Easy application** – can be applied by roller for fast installation.

TECHNICAL DATA

| | | | |
|---|---|-------------------|--------------------------------------|
| Solid content | | % | 74 |
| Density | at 25 °C | g/cm ³ | 1.45 |
| Viscosity | at 28 °C | mPas | 4000 – 6500 |
| Adhesive strength | concrete failure (according to DIN ISO 4624) | N/mm ² | >1.5 |
| Working time | at 20 °C | minutes | 20 |
| | at 25 °C | minutes | 25 |
| Material consumption | on smooth surface | g/m ² | 250 – 300 |
| | on broadcasted surface | g/m ² | 400 – 600 |
| Application temperature | min 3 °C above dew point | °C | 10 – 30 |
| Cure time to withstand : | at 25 °C,; foot traffic | | after 6 – 8 hours |
| | : high pressure cleaning | | after 3 days |
| | : water immersion | | after 7 days |
| Overcoating | at 25 °C | | within 24 hours |
| Packaging size | total size | | 22 kg (18 kg A + 4 kg B) |
| Mixing ratio | component A : component B | | 4.5 : 1 by weight (kg) (100 : 22) |
| Colours | Flortech standard | | |
| Shelf life | 12 months in closed original container | | |
| Storage | dry and frost free at 10 – 30 °C, avoid direct sunlight | | |
| <i>Above figures are guide values and should not be used as a base for specifications!</i> | | | |



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FLOORING TECHNOLOGY

APPLICATION METHOD

1. Substrate preparation

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

Concrete substrate should have no ponded water. The moisture content in the substrate is not relevant.

This product can be used on fresh concrete as a curing compound (water will stay in the concrete long enough for curing of concrete to gain desired strength).

Repair imperfections (cracks and holes) 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 improve the appropriate surface profile for optimum mechanical interlocking.

For the newly laid laminate, no surface preparation is required if less than 24 years old. A light sanding is required if the laminate surface is over 24 hours old.

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 or trowel and back roll with a short nap roller in a criss cross manner.

When used without water dilution, it will exhibit a textured (orange peel) and a glossier finish.

If a smooth finish is required, dilute with 3 to 5% water before use. This will reduce the sheen slightly and rendering the surface more prone to dirt pick-up.

3. Overcoating

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

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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.