

# FloorPro EC200

## Two-Component | Solvent-Free | High-Build Epoxy Floor Coating

Pigmented, solvent-free, high-build epoxy floor coating system designed to offer seamless, durable floor protection against chemical attack at applied thicknesses between 0.2–0.4 mm.



### PRODUCT DESCRIPTION

**FloorPro EC200** is a pigmented, solvent-free, high-build epoxy floor coating system designed to offer seamless, durable floor protection against chemical attack at applied thicknesses between 0.2–0.4 mm.

The system consists of pre-weighed base and hardener components and a FloorPro Colour pack. A slip-resistant texture can be achieved using FloorPro Anti-slip Aggregates between coats, giving anti-slip build-ups between 0.5–1.0 mm.

### WHERE TO USE

#### Typical Applications

**FloorPro EC200** provides a hard-wearing, chemical and abrasion resistant finish for wet and industrial areas:

- Chemical manufacturing plants.
- Pharmaceutical and other medical facilities.
- Car production and showroom facilities.
- Wet areas requiring high resistance to chemicals, oils and grease.

#### Suitable Substrates

- Concrete and cementitious substrates — sound, clean, dry and of sufficient compressive strength, prepared mechanically to an open-textured surface.
- Surface defects, blowholes and voids repaired with the RepairPro range and faired with **RepairPro EP FCB**.
- Primed as required prior to coating; remove loose, friable material by brush or vacuum.
- Substrate free from oil, grease, curing compounds, laitance and surface treatments.



### PRODUCT HIGHLIGHTS / BENEFITS

#### Chemical Resistant

Seamless epoxy finish offering high resistance to chemicals, oils and grease.

#### Solvent-Free

100% solid, solvent-free system with low VOC emission.

#### Hard Wearing

Durable, abrasion-resistant finish for heavy industrial traffic.

#### Seamless Finish

Forms a seamless, easy-to-clean protective floor coating.

#### Anti-Slip Option

Slip-resistant texture achievable with **FloorPro Anti-slip Aggregates** between coats.

#### High Bond Strength

Excellent adhesion to prepared concrete substrates.

### APPLICATION GUIDELINES

Application should be carried out by experienced flooring crews. The general recommended guidelines are as follows:

#### Substrate Preparation & Priming

- Prepare concrete mechanically to a sound, clean, open-textured surface; repair defects with the RepairPro range and fair with **RepairPro EP FCB**.
- Prime the prepared surface as required and allow to cure before coating; remove loose material by brush or vacuum.

#### Mixing

- Add the **FloorPro Colour pack** to the base, then add the hardener. Mix thoroughly with slow-speed drill & suitable paddle until uniform.
- Scrape the container sides and base to ensure complete blending; do not split packs.

#### Application

- Apply at 200–250 microns per coat as a two-coat system, giving a dry film thickness of 0.4–0.5 mm.
- For a smooth finish at 200 microns per coat, use a medium-pile roller or suitable paint brush.
- For anti-slip finishes, broadcast FloorPro Anti-slip Aggregates between coats and seal with a further coat.

## TECHNICAL CHARACTERISTICS

### PRODUCT IDENTITY

| DATA                    | TEST METHOD | RESULT                 |
|-------------------------|-------------|------------------------|
| Appearance              | —           | Liquid paste           |
| Mix Density             | —           | 1.45 g/cm <sup>3</sup> |
| Solid Content by Volume | —           | 100%                   |
| Wet Film Thickness      | —           | 200 microns            |
| Shrinkage               | —           | Nil                    |
| Flash Point             | —           | Non-flammable          |
| VOC Content             | —           | < 50 g/litre           |

### APPLICATION DATA

| DATA                            | TEST METHOD | RESULT                                                  |
|---------------------------------|-------------|---------------------------------------------------------|
| Working Time (Pot Life)         | —           | 180 min @ 10°C<br>90 min @ 20°C<br>45 min @ 30°C        |
| Initial Cure (Foot Traffic)     | —           | 24 hrs @ 20°C<br>18 hrs @ 30°C                          |
| Full Cure / Chemical Resistance | —           | 14 days @ 10°C<br>7 days @ 20°C<br>5 days @ 30°C        |
| Overcoating Time                | —           | 24–48 hrs @ 10°C<br>16–32 hrs @ 20°C<br>8–24 hrs @ 30°C |
| Application Temperature         | —           | +5°C to +35°C                                           |
| Service Temperature             | —           | -20°C to +60°C                                          |

### TEST DATA

| DATA                 | TEST METHOD | RESULT                          |
|----------------------|-------------|---------------------------------|
| Compressive Strength | ASTM C580   | > 75 N/mm <sup>2</sup> (7 days) |
| Flexural Strength    | ASTM D624   | > 30 N/mm <sup>2</sup>          |
| Tensile Strength     | ASTM D412   | > 5 N/mm <sup>2</sup>           |
| Elongation           | ASTM D412   | > 200%                          |
| Bond Strength        | —           | > 2 N/mm <sup>2</sup>           |
| Taber Abrasion       | ASTM C957   | < 50 mg loss / 1000 cycles      |
| Water Absorption     | —           | < 0.1%                          |

\* All values given are subject to 5-10% tolerance.

\* At +23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

\* Properties listed above are based on controlled laboratory samples and tests. Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

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## CURING

Initial cure / set to foot traffic 24 hours at 20°C or 18 hours at 30°C. Full cure / chemical resistance 14 days at 10°C, 7 days at 20°C or 5 days at 30°C. Overcoat within 24–48 hours at 10°C, 16–32 hours at 20°C or 8–24 hours at 30°C.

## CLEANING

Clean tools and equipment with a suitable solvent immediately after use. Cured material can only be removed mechanically.

## RECOMMENDATIONS

- Avoid application during the hottest times of the day and in direct sunlight.
- Do not split packs; mix complete units only to ensure correct ratio and cure.
- Ensure the substrate is sound, dry and correctly primed before coating.
- Do not apply over substrates with rising damp or moisture content above the recommended limit.
- The product should not be exposed to moving water during application or prior to initial set.

## STORAGE

12 months from manufacturing date in original, unopened packaging, under cover in dry conditions away from humidity, protected from extreme temperatures, rainfall and direct sunlight.

## HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves, goggles and a mask should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the product be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For further information, refer to the appropriate Product Material Safety Data Sheet.

**DISCLAIMER:** While the company guarantees its products against defective materials, the use and application of these products are made without guarantee, since the conditions of their application are beyond its control and therefore, under the exclusive responsibility of the installer. The information contained in this datasheet, as well as our advice, both written as oral or provided through testing, are based on our experience and they do not constitute any product guarantee for the installer. The manufacturer reserves the right to change the properties of its products. It is the user's responsibility to obtain the latest version of the datasheet.