

Description

Centrecoat ArmourCoat PU 2 TF is a three-part polyurethane coating is a top coat for Centrecoat Armourcoat HF floor toppings where refinishing is necessary. Centrecoat ArmourCoat PU 2 TF may also be directly to prepared concrete in areas adjacent to other Armourcoat floor toppings to maintain a degree of consistency of finish. The product can also be used as a moisture tolerant primer in conjunction with [Centrecoat Armourcoat HF](#).

Centrecoat ArmourCoat PU 2 TF is ideal for use in areas requiring good wear and chemical resistance combined with economical cost. Typical installations include chemical storage areas, warehousing, toilets, laboratories, food preparation areas etc.

Colour & Appearance

Mottled matt finish. Shade/gloss level variation may be apparent due to inconsistencies in the applied film thickness.

Centrecoat ArmourCoat PU 2 TF is available in a range of standard colours. Centrecoat ArmourCoat PU 2 TF is not colour fast and may yellow over time. The rate of change will depend on UV light and heat levels and cannot be predicted. This will be more pronounced with lighter colours and blue shades and does not compromise the product's performance or chemical resistance characteristics.

Application / Substrate Conditions

Ideal ambient and substrate temperature range is 15 - 25°C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface, this should be maintained from before priming to at least 48 hours after application.

The atmospheric relative humidity should be below 70% and good ventilation should be provided to aid the removal of water and maintain curing times.

Preparation

Inadequate preparation will lead to loss of adhesion and failure. In coating systems there is a tendency for the finish to mirror imperfections in the substrate. Grinding, or light vacuum-contained shot-blasting is therefore preferred over planing for these systems. Percussive scabbling or acid etching is not recommended.

Mixing

Prior to mixing, the temperature of the three components must be between 15 and 25°C. Pre-mix the coloured resin component before use. Add the full contents of the filler bag slowly and mix for a further 1-2 minutes until a lump free consistency is obtained using a low speed electric mixer (300 - 400 rpm). When the aggregate is fully dispersed add the hardener component and mix until homogeneous. This will ensure that the maximum working time is maintained.

Application

Centrecoat ArmourCoat PU 2 TF does not normally require the use of a primer. When treating extremely weak or porous concrete it is advisable to prime with [Centrecoat ArmourCoat Multi-Use Primer](#). Please refer to technical data sheet. This primer should be allowed to cure for a minimum of 16 hours prior to application of Centrecoat ArmourCoat PU 2 TF.

Apply using a medium nap roller direct from a paint tray or scuttle. Push the resin well into the surface, make sure it is fully wetted out then pull back to a tight coat with the roller. Inconsistent application thickness will result in an uneven finish and appearance. It is always preferable to apply two thin coats rather than one heavy coat.

The cured product should be protected from other trades using Kraft paper or similar breathable material. Polythene

should not be used. Protect the installed floor from damp, condensation and water for at least 4 days.

Technical Data

- ▶ BS 8204-6: FeRFA Type 3
- ▶ Abrasion resistance (EN 13892-4): AR 0.5
- ▶ Abrasion resistance (BS 8204-2): Special Class
- ▶ BRE Screed Test: Category A
- ▶ Adhesion to concrete (BS EN 1504-2) (Concrete Failure): > 1.5 MPa

- ▶ Pot Life: 15 minutes at 20°C
- ▶ Overcoatable: 12 - 48 hours
- ▶ Pedestrian Traffic Ready: 12 hours
- ▶ Light Wheeled Traffic Ready: 24 hours
- ▶ Heavy Duty Traffic Ready: 48 hours
- ▶ Full Chemical Resistance: 7 days
- ▶ Thickness: Approx 300 microns from two coats

These cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. Usable working life of material following mixing and immediate spreading as per the application instructions. Decant mixed product into smaller quantities if applying to awkward areas as application time will be shorter if left in bulk.

Chemical Resistance

Centrecoat ArmourCoat PU 2 TF is resistant to a wide range of commonly used chemicals in the food, dairy and pharmaceutical industries such as concentrated citric acid (fruits), spirit vinegar (50% acetic acid), lactic acid (food & dairy products) and common alcohols (methanol & ethanol). Centrecoat ArmourCoat PU 2 TF is also resistant to a wide range of inorganic acids, fuels, hydraulic oils, mineral oils and solvents. Good housekeeping practices should be employed at all times. Please consult our Technical Department for further advice.

Some staining or discolouration may occur with some chemicals, depending on dwell time, temperature, type of chemical and degree of housekeeping employed. This does not affect the product's service integrity or durability.

Coverage Rate

- ▶ 5m² per kg per coat

Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

Cleaning

Regular cleaning is essential to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Centrecoat ArmourCoat PU 2 TF can be easily cleaned using industry standard cleaning chemicals and techniques. Consult your cleaning chemical and equipment supplier for more information.

Storage

Store off the ground in un-opened packs in a dry store, under cover between 10°C and 30°C out of direct sunlight. Protect from frost.

Shelf Life

Resin and hardener components 12 months. Aggregate component 6 months. If stored in accordance with the above recommendations.

Packaging

Available in 3.2 and 8.25 Kg

Limitations

Do not proceed with application if atmospheric relative humidity is, or is anticipated to be, >85% or if the surface temperature is <3°C above the dew point. Application should not commence when the substrate temperature or the ambient temperature is, or is anticipated to be <5°C during the application or within the curing period. The design strength of concrete surfaces must be a minimum of 25 MPa compressive strength at 28 days.

The manufacture of Centrecoat ArmourCoat PU 2 TF is a batch process and despite close manufacturing tolerances, colour variation may occur between batches. Products from different batches should not be used on the same surface or surfaces close together. If mixed batches are unavoidable, it is best practice to use the different batches only in areas where the colour cannot be directly compared. Touching up should only be attempted using product from the same batch using the same application methods. Product should be reserved specially for this purpose. It is recommended that touching up is carried out up to a break in the floor or surface.

For further information on this or any other Centrecoat product, please contact our office.