

Description

Centrecoat ArmourCoat WB 2-80 is a 2 part water dispersed epoxy floor coating for use on concrete and polymer modified cementitious screeds. ArmourCoat WB 2-80 is designed to provide a tough, hard wearing protective floor finish available in a range of colours including clear.

As this coating is water based, it can be applied to 7 day old 'green' concrete. Due to its easy to clean silk finish, ArmourCoat WB 2-80 is ideal for garages, food and beverage industries, light industrial floors and other areas subject to pedestrian and light vehicle traffic.

Category FeRFA Type 1 and 2 Approved.

Features

- ▶ Water based technology
- ▶ Resistant to general chemical spillages
- ▶ Durable and non-dusting
- ▶ Economical and easy to apply
- ▶ Suitable for application to sanded power floated floors
- ▶ Can be applied to 7 day old 'green' concrete due to breathable nature

Colour

Semi gloss / silk finish. Available in a wide range of colours and clear. ArmourCoat WB 2-80 is not 100% 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. However, it will not compromise the products performance or chemical resistance characteristics.

Application / Substrate Conditions

Resin products should not be mixed and laid outside of the range of 10 - 25°C. Localised heating or cooling equipment may be required outside this range to achieve ideal temperature conditions. To reduce the risk of "blooming" caused by condensation, the climate above the uncured floor should be maintained at least 3°C above the dew point for at least 48 hours after application. The atmospheric relative humidity should be below 80%. Good ventilation should be provided to aid the removal of water and maintain curing times. The substrate should be surface dry with a maximum relative humidity of 80% and free from rising damp and ground water pressure.

Preparation

The concrete substrate must be sound with a minimum compressive strength of 25 N/mm² and a minimum pull off strength of 1.5 N/mm². The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. Inadequate preparation will lead to loss of adhesion and failure. In coatings, 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.

The substrate should be smooth as surface irregularities will show through the coating and excess wear will occur on high spots.

Mixing

Pre-mix the coloured resin component before use. Add the hardener resin component before use. Add the hardener component to the coloured resin component and mix using a low speed electric mixer (200 - 500 rpm) fitted with a mixing paddle designed to minimize air entrapment for 1-2 minutes until homogeneous. Care should be taken to ensure that any material adhering to the sides and bottom of the mixing vessel is thoroughly mixed in otherwise uncured patches may result.

Application

Apply by brush, roller or airless spray. Depending on the substrate porosity, the first coat may be diluted with up to 10% water to aid penetration. The water should be added after mixing of the resin and hardener components is complete. Avoid ponding of the coating as trapped water will lead to incomplete cure. Do not apply subsequent coats until the previous coat is completely dry. This will depend on temperature, atmospheric humidity and degree of ventilation.

Adequate ventilation and air movement is necessary. Each coat should be applied at right angles to the previous coat in order to minimize imperfections and unevenness overall. Uneven application may lead to differences in gloss level across the cured floor.

Technical Data

- ▶ Thickness: 250 microns WFT from two coats. Approx 125 microns DFT
- ▶ Adhesion to Concrete (BS EN 1504-2): > 1.5 MPa (concrete failure at 28 days at 20°C)
- ▶ Pot Life: 1 hour at 20°C
- ▶ ArmourCoat WB 2-80 does not have a visible end of pot life. After the pot life has expired the material will not be hardened or have increased in viscosity but the characteristics of the product will have changed. The final properties of the coating will be affected. Discard excess material after this period.
- ▶ VOC: <140g/l

- ▶ Overcoatable: 8 to 24 hours at 20°C
- ▶ Foot Traffic Ready: 24 hours at 20°C
- ▶ Medium Duty Traffic Ready: 48 - 72 hours at 20°C
- ▶ Fully Cured: 7 days at 20°C
- ▶ The material should be protected from contact with water for 7 days.

The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions. At lower temperatures curing times will be extended.

Coverage Rate

A minimum of two coats are required. Some substrates may require additional coats depending on the profile and porosity. Light or bright colours such as safety yellow or red may require additional coats to achieve full opacity.

As a guide, a medium quality substrate may achieve 4m²/kg from 2 coats and a more porous substrate may achieve 3m²/kg from 2 coats.

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

Storage

Materials should be kept dry and stored in a weather proof building maintained at 15 - 20°C on pallets and away from walls. Consignments should be used in order of batch number. Protect from frost.

Shelf Life

12 months when stored in accordance with above recommendations.

Packaging

Available in 5 and 10 Kg

Limitations

Refer to product Safety Data Sheet before use.

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 <10°C during the application or within the curing period.

The manufacture of ArmourCoat WB 2-80 is a batch process and despite close manufacturing tolerances, minor variations in shade 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, Wear in heavy concentrated foot traffic areas is reduced such as around workstations, vending machines etc. In these areas it is advisable to either specify additional coats or a higher build system from the Centrecoat range.