PRODUCT DATA SHEET
Centrecoat Strongcoat WD

Description

Centrecoat Strongcoat WD is a high performance two-component, water dispersible, epoxy resin coating, designed to provide a hard, semi-matt seal to concrete floors, walls, ceilings and other substrates.

Strongcoat WD is used as general protection coating for floors or walls in many applications including: Soft drink and beverage production areas, Industrial and commercial kitchen walls, Warehouses, Hospitals and pharmaceutical factory walls, Fish and meat processing plant walls, General food processing and manufacturing plants, Light vehicular traffic areas.

- Water based, moisture tolerant
- Solvent free, non tainting
- Dust free surfaces
- Available in a wide range of attractive colours
- Cost effective
- Good chemical and mechanical resistance
- Easy application

Preparation

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating. Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured using a hygrometer. Concrete relative humidity should be less than 80% for concrete 28 days old or more.

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. Acid etching can be used only in well ventilated areas. Areas deeply contaminated by oil or grease, should be treated by hot compressed air.

Priming

Porous substrates should be primed with Strongcoat WD diluted with up to 10% by volume with potable water. Mixing should be carried out by heavy duty slow speed drill fitted with a mixing paddle.

Mixing

To avoid inconsistent workability and pot life, ensure that the materials to be used are stored in shaded area and protected from extremes of temperatures, for at least 24 hours prior to application. Prior to mixing, stir individual components of Resin, Hardener and colour pack. Add the entire contents of the colour pack into the hardener container and mix with heavy duty drill for 2 minutes till a uniform colour is achieved. Add the entire contents of the base container to the mixed colour pack and hardener and mix thoroughly for at least 3 minutes.

Application

Use brush or lambs wool roller, or airless spray machine to apply the mixed Strongcoat WD onto the prepared surfaces. Apply 2 coats of Strongcoat WD at 5 m²/kg/coat, second coat should be applied at a right angle to the first coat. The second coat may be applied as soon as the first coat has initially dried.

Drying time will depend on the substrate and the ambient conditions. If the over coating time is exceeded the first coat must be abraded with sand paper prior to the application of the second coat. Adequate ventilation must be provided to ensure that necessary drying and curing of the material is achieved.

- Higher traffic areas should receive extra coats or a higher build system
- Not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%

- Strongcoat WD should not be applied onto surfaces known to suffer from rising damp
- In case of spray applications, airless spray machines should be used

Technical Data

- Mixed Density: 1.35 ± 0.1 g/cm³
- Pot Life: 1 - 2 hours at 20°C
- Curing time: 7 days at 20°C
- Minimum time between coats: 6 hours @ 20°C
- Maximum time between coats: 24 hours @ 20°C
- VOC: < 20 g per litre
- Adhesion strength on concrete EN 13892-8: > 3 MPa (concrete failure)
- Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel: 130 milligram
- Impact resistance: > 4 N.m

Coverage Rate

The coverage rate is 25 m²/5 kg pack per coat to achieve an approximate dry film thickness of 70 microns per coat.

Chemical Resistance

Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (spot test @ 1 hour & 30°C)

Motor Oil	R
Diesel	R
Petrol	R
Detergent	R
White spirit	R
Xylene	SS
Acetone	R
Phosphoric Acid (50%)	R
Sulphuric Acid (25%)	RS
Hydrochloric Acid (10%)	RS
Nitric Acid (10% solution)	RS
Sodium Hydroxide (50%)	R
Brine (saturated)	R

KEY: R: Resistant | RS: Resistant with slight discolouration | SS: Slight softening

Clean Up

Tools and equipment can be cleaned with clean water while wet. Dried Strongcoat WD can be removed with solvent.

Storage

Store in a dry area out of direct sunlight at temperatures between 5°C and 35°C.

Shelf Life

Shelf life of 12 months from date of manufacture if stored in proper conditions and unopened packs.

Packaging

Available in 5 and 20 Kg

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Health & Safety

Strongcoat WD should not come in contact with skin and eyes. In case of accidental splashes to the eyes, rinse thoroughly with clean water and seek medical advise. Suitable protective gloves and goggles should be worn. Do not use solvent to clean Strongcoat WD from skin. For further information refer to the Material Safety Data Sheet.

Consult the appropriate Material Safety Data Sheets prior to using.

This Data Sheet is for general purposes only and may contain information which is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Department.

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