Strongcoat WD

Water based epoxy resin floor and wall coating

DESCRIPTION

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, ceiling and other substrates.

APPLICATIONS

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.

ADVANTAGES

- 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.

METHOD OF USE

SUBSTRATE 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.

TECHNICAL PROPERTIES:

Mixed density:	1.4 ± 0.1 g/cm³
Pot life:	60 - 80 min
Adhesion strength on concrete: EN 13892-8	> 3 MPa (concrete failure)
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	150 milligram
Impact resistance:	> 4 N.m
Curing time:	7 days
Minimum time between coats:	6 hr @ 20°C 4 hr @ 35°C
Maximum time between coats:	24 hr @ 20°C 16 hr @ 35°C
VOC:	< 20 g/ltr

SURFACE PREPARATION

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.

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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.

COATING

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 5.0 - 5.6 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.

REMARKS

- Higher traffic areas should receive extra coats or a higher build system.
- Strongcoat WD should 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.

OCCASSIONAL SPILLAGE

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

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

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

CLEANING

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

PACKAGING

Strongcoat WD is available in 5 and 20 kg packs.

COVERAGE

The coverage rate is 25 - 28 m²/5 kg pack per coat to achieve an approximate dry film thickness of 70 - 80 microns per coat.

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STORAGE

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

SHELF LIFE

Strongcoat WD has a shelf life of 12 months from date of manufacture if stored in proper conditions and un-opened packs.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

CAUTIONS

HEALTH AND 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.

FIRE

Strongcoat WD is water based and nonflammable.

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