



Chem Coats (Pvt) Ltd.

ChemCoat WD 337

Premier quality, multipurpose water-dispersed epoxy coating

DESCRIPTION

ChemCoat WD 337 is a two-component, solvent-free, water dispersed, polyamide-cured epoxy.

USES

ChemCoat WD 337 is a protective, decorative and oil-resistant coating for cementitious, masonry and asphaltic surfaces, floor, wall coating and as primer for Chemflo SL.

Areas where ChemCoat WD 337 may be used on both floors and walls are:

- factories and warehouses
- parking facilities
- shopping areas
- dairies and milking parlours
- nuclear de contaminable areas

BENEFITS

- May be applied to damp surfaces.
- Easily over coated at any time for maintenance.
- Tough protective and decorative coating.
- Oil & petrol resistant.
- Economical.

SURFACE PREPARATION

CONCRETE – Surfaces must be clean and mechanically sound and free of laitance, nibs, dust, grease and oil. Wet abrasive grinding is generally used on concrete floors. Any holes should be filled with an adequate mortar, e.g. sand/cement gauged with Chembond and laid into a Chembond/cement/sand slush. Surfaces do not need to be dry as long as they are free of standing water. Bone-dry surfaces must in fact be lightly dampened with water to prevent too rapid suction of water from the coating.

BONDING / PRIMING

It is not usual to apply a primer under ChemCoat WD 337. On porous surfaces dilute the primer coat with up to 10 - 15% clean water and pre-dampen the surface to obviate suction.

MIXING

Pre-stir base and activator. Add the entire base to the activator and stir for at least 5 minutes using a flat paddle. It has been found that mechanical mixing gives better dispersion than manual mixing. A suitable mixing method would be a slow-speed electric drill (approximately 200 r/min) fitted with a paddle.

POT LIFE

Mixed ChemCoat WD 337 has a pot life of some 90 minutes at 20° C. While unused material may still appear workable after this time, it must under no circumstances be used.

COVERAGE

8 - 10 m² / litre on smooth surface per coat. Two coats are recommended.

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PROPERTIES OF WET MATERIAL

Mixing ratio	1: 2 by volume
Relative Density Typical	1.17-1.20 g/cm ³
Finish	Semi-matt
Flash point	None
Dilution	Up to 10 - 15% water in first coat
Consistency	Low viscosity liquid

PROPERTIES DURING APPLICATION

Pot life @20° C @ 30° C	90 min/5l, 45 min/5l
Volume solids (typical)	40% - varies slightly according to colour
Coverage for above dft	8 - 10m ² / l on smooth surface
Recommended no. of coats	Two minimum
Drying time @ 25° C	Touch dry - 4 - 6 hrs, Hard dry - 24 hrs, Full cure - 3 days
Over coating time @ 25° C	Minimum 4 - 6 hrs, Maximum - None
Application temperature range	+5° C to +35° C
Fire resistance of wet film	Non-flammable

PROPERTIES OF DRY FILM

Maximum service temperature	Dry - +60° C
Minimum service temperature	Suitable for cold room use
Impact resistance	Five impacts of 1 kg Dropped 1 m
Weathering resistance	Chalks on exposure to ultra-violet light or sunlight
Scrub resistance	Has excellent scrub resistance



CHEMICAL PROPERTIES OF DRY FILM	
Sulphur resistance	No change after 21 days in 1% by mass sodium sulphate
Water resistance	Withstands 18 months immersion test but is not recommended for continuous immersion service
Solvent resistance	Withstands petrol, mineral and crude oils, 50% ethyl alcohol – 12 months immersion test but is not recommended for continuous immersion service
Chemical resistance	Withstands 40% caustic soda, 5 % lactic acid, 5 % acetic acid, vegetable and animal fats. Not recommended for continuous conditions

APPLICATION

Mixed ChemCoat WD 337 may be applied to the dampened substrate by water pre-moistened brush or roller or by airless spray using a ± 500 µm tip. Ideally any first coat should be applied by brush. As soon as a coat is touch dry, a subsequent coat may be applied. Unless the treatment is required to provide chemical resistance, an additional two coats are normally sufficient. Chemical resistant work or floors always requires three coats. If working indoors or in confined spaces, ensure adequate ventilation. Outdoors, the wet film is liable to wash off in rain or be damaged by frost.

ChemCoat WD 337 may be over coated at any time. Ensure that the surface is clean and free of contamination and chalking. Over coating, without inter-coat adhesion problems may occur.

CLEANING

During brief interruptions of work, equipment should be immersed in clean water. At major stoppages it must be washed with soap and water or with super brush cleaner. Cured ChemCoat WD 337 is almost impossible to remove

PROTECTION ON COMPLETION

Protect against traffic and spillage until cured. Most epoxies chalk and degrade in extensive sunlight.

PACKAGING

ChemCoat WD 337 is supplied in 05 liter containers.

HANDLING & STORAGE

ChemCoat WD 337 have a shelf life of 12 months if kept in a dry, cool store in the original, unopened packs. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

HEALTH & SAFETY

Wet ChemCoat WD 337 is toxic. Ensure working area is well ventilated during application and drying. Avoid inhalation of dust and contact with skin and eyes. Suitable protective clothing, gloves, eye protection and respiratory protective equipment should be worn. The use of barrier creams provides additional skin protection. If contact with skin occurs, wash with water and soap. Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought. Cured ChemCoat WD 337 is inert and harmless.

IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Chem Coats representative.

RANGE OF PRODUCTS

WATERPROOFING SYSTEMS INDUSTRIAL FLOOR SURFACES PROTECTIVE COATINGS	PREPACKED REPAIR MORTARS CEMENTITIOUS & EPOXY GROUTS CONCRETE ADMIXTURES	SEALANTS CRACK INJECTION CONCRETE ADHESIVE
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