OXY-BOND DPM RAPID

Oxy-Bond DPM Rapid is an epoxy resin based solvent-free, high build damp proof membrane. Specifically developed to suppress residual construction moisture and rising dampness in concrete and sand/cement screeds providing protection for water sensitive floor coverings. It can be applied in one coat and used in situations where the relative humidity level is below 98%. Oxy-Bond DPM should only be applied subject to a survey confirming adequate underlying ground stability and hygrometer readings in accordance with Appendix A, BS8203 or BS5325.

Oxy-Bond DPM has excellent resistance to water, grease, oil, aqueous salt solution and dilute mineral and organic acids.

Characteristics & Advantages

- Fast drying – overcoat after 4 hours at 20 Degrees Celcius.
- Minimum down time and costs
- Outstanding adhesion to concrete under adverse conditions
- Excellent resistance to water and hydrolysis
- Ease of mixing and application

Substrate Preparation

The substrate should be clean, dry and free of dirt, oil, grease or surface treatments and coatings. All loose friable material such as laitance, any surface sealer or non-bonded curing compounds should be entirely removed mechanically, preferably by light shot blasting, to yield a sound and even textured surface exposing aggregate. The slab should preferably be a minimum of 21 days old and should have a relative humidity of no more than 97% when measured using a Hygrometer in accordance with BS 8203. The substrate should be surface dry.

Note: special care should be taken where contaminants are present that may be detrimental to the bond line in terms of penetration, adhesion and degradation i.e. mould release, oil, acids and solvents etc. Acid etching is not an appropriate method of preparing surfaces.

Application & Mixing

Construction joints designed to allow movement of the sub floor must not be bridged with Oxy-Bond DPM. These joints must be sealed with a suitable jointing compound after the application of the membrane.

Condition the containers between 15°C and 25°C prior to mixing. Add the full contents of the hardener unit to the base unit and mix with a slow speed drill and paddle mixer until uniform. It is important that all the resin components have been mixed, taking

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care to ensure that the bottom and sides are thoroughly scraped. Avoid over mixing and air entrapment. Transfer to a suitable paint tray or container and apply evenly to the substrate as soon as possible by means of a short nap roller. A fine notch trowel may also be used to apply the material prior to rolling.

Over large areas a soft foam squeegee can be used to initially spread, uniformally finish with a nap roller. Sufficient material should be applied evenly so as to satisfy the porosity of the substrate without undue ponding. Care should be taken not to exceed the coverage rate of the unit so as to maintain the requisite film build.

Once cured the coating should have a glossy finish over the whole floor. When applied to very absorbent surfaces, the membrane can be absorbed into the floor leaving a subdued shine. In such circumstances or where pinhole and weak spots are evident, a second application will be required.

Product Data

Colour - Base **- Hardener**	Dark Grey/Black Amber
Pot life at 20°C	20 minutes
Shrinkage	Negligible
Film Thickness	250µ minimum
Overcoating Time	4-5 hours @ 20°C
Maximum Overcoating Time	24 hours @ 20°C
Application Temperature	10-30°C
Coverage per 10Kg unit	2.5m^2/Kg or 25m^2 at 250 microns for relative humidity below 85% 1.8m^2/Kg or 18m^2 at 350 microns for relative humidity between 85% and 98% **This should not be exceeded.** Note: Coverage rates and related film build will, in practice, depend upon the porosity and profile of the floor surface being treated. Two coats should be applied if hygrometer readings exceed 98%.
Density	1.54g/cc
Shelf Life	Indefinite in unopened containers
Pack Sizes	5Kg (3.23 litres), 10Kg (6.45 litres)

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DATA SHEET

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Health & Safety Information

Oxy-Bond DPM Rapid contains epoxy constituents and is classified as an irritant and may cause sensitisation on repeated skin contact. The hardener component is classified as corrosive. For further information and advice users should refer to the most recent safety data sheet.

Important

The information and recommendations provided are given in good faith based on our current knowledge and experience. However, the differences in substrates, materials and site conditions are such that no warranty or fitness for a particular purpose can be inferred from this information or any written recommendations. The user must test the product's suitability for the intended use.

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