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ES400

Bulk DPM

KEY BENEFITS SUMMARY

- Designed as a primer for new concrete and sand/cement screed floors
- Can be used to suppress residual constructional moisture in concrete and sand/cement floors
- Packaged in bulk 1000 kg IBC units to reduce packaging waste on site.
- Hygrometer readings of up to 97% RH (measurable) can be accommodated (99.9% theoretical)
- Easy to apply
- Cost effective

PRODUCT INFORMATION

Description

Tremco ES400 Bulk DPM is a two part epoxy moisture vapour suppressant and surface damp proof membrane.

Usage / Purpose

Tremco ES400 Bulk DPM has been developed specifically for suppressing residual moisture on concrete and sand/cement subfloors and provides a surface damp proof membrane.

Colour

Clear

Packaging

1000kg IBC Bulk Containers for both Tremco ES400 Bulk DPM Component A and Component B.

Availability

Direct from Tremco illbruck (see back of leaflet for address and telephone details), or via local and national Distributors.

TECHNICAL INFORMATION

Composition

Two part epoxy coating system.

Characteristics (Typical Values)

DENSITY (at +25°C)
1.16 - 1.18

MIXING RATIO

Tremco ES400 Bulk DPM
A:B 1.7:1 by weight

WORKING POT LIFE (at +20°C)
Approximately 45 minutes

HARDENING TIME

5 to 6 hours

USAGE GUIDELINES

Standards

All aspects of the installation must be in accordance with the requirements of BS8204, BS8203 (Installation of Resilient floorcoverings) or BS5325 (Installation of Textile floorcoverings) and supplementary specifications.

Surface Preparation

- The surface must be firm, sound, clean, dry, and free of any other contaminants liable to prevent penetration into the substrate or adhesion to the surface.

N.B. Concrete curing agents and admixtures and the misuse of these products can impair adhesion. Where doubt exists, or compatibility is unknown, a trial adhesion test with Tremco ES400 Bulk DPM should be carried out, and the Technical Department must be consulted.

- Remove all surface dust, etc., by industrial vacuum cleaning. Machine scarifying or "shotblasting" will be necessary for removal of incompatible curing agents or admixtures or other stubborn surface contamination. "Shot blasting" will also be necessary on highly polished surfaces.

Mixing

Tremco ES400 Bulk DPM hardens by a chemical reaction. It is essential that the mixing instructions are strictly adhered to:

- Although supplied in equal 1000 kg IBC quantities, it is essential that the two components are only mixed in the following ratio:

Component A decant 6.25 kg
Component B decant 3.75 kg

This will provide 10 kg of mixed material.

- 1) Decant the components as above into suitable containers, with sufficient volume to mix the two together in one container.
- 2) Using a suitable slow speed drill fitted with a suitable two bladed mixer paddle, mix the contents for three to five minutes to ensure adequate mixing. Ensure all materials from the base and sides of the containers are mixed in thoroughly to ensure a uniform cure
- 3) Higher temperatures will reduce usable life.

ES400

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Method of Application

Take hygrometer readings (BS 8203) and select the appropriate Tremco System applicable for the prepared base.

- Apply an even coat of the mixed Tremco ES400 Bulk DPM by means of a 2 mm x 5 mm notched trowel. Whilst the Tremco ES400 Bulk DPM is still wet, flatten out the serration ridges with a long handled Tremco fluff-free roller, initially pre-wetted with mixed Tremco ES400 Bulk DPM.

Note: This method provides further control of film thickness by helping to ensure that the coverage is not over extended.

- Do not exceed a coverage of 4.0 m²/kg
- It is essential that the applied coating is continuous and free from pinholes or weak spots, otherwise an additional application will be necessary.
- The coating thickness must not be less than 200 microns per coat.
- Allow to cure for 3 to 4.5 hours minimum at a preferred ambient temperature of no less than +18°C, before the application of Tremco underlayments or specified Tremco adhesives.

Typical Specifications

For project specific specifications please contact the Tremco technical sales team who will be pleased to assist.

One coat may be used on subfloors which have between 75% and 85% relative humidity.

Two coats should be used with readings of 85% - 97% or alternatively use Tremco ES100 One Coat Universal DPM.

Coverage Rate

4 m²/kg depending on method of application and condition of substrate to give a dry film thickness of 200 microns per coat.

Cleaning

Clean tools, etc., with Tremco AW421 Heavy Duty Cleaner (flammable).

Health & Safety Precautions

Product Health and Safety Data Sheet must be read and understood before use.

Storage

- Store between +5°C and +25°C.
- Rotate stock using oldest material first.

Shelf Life

6 months when stored as recommended in unopened containers.

Technical Service

Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco illbruck written instructions and (b) in any application recommended by Tremco illbruck, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.