

# 402 DAMP PROOF COATING

**TIME SAVING, MOISTURE AND SURFACE TOLERANT COATING**

## DESCRIPTION

402 Damp Proof Coating is a two pack epoxy resin based primer/coating, which has been developed to function as a residual construction moisture suppressant, allowing the early installation of moisture sensitive flooring in fast track building programmes. One or two coats may be applied depending on the degree of dampness present in the sub-floor.

402 Damp Proof Coating is also suitable for priming damp, minimally prepared substrates and as a high build coating in its own right.

Now available to purchase in **Smooth** and **Anti-Slip\*** options. (\*250 micron grade of 508 Anti-Slip Additive will be added at 2.4% prior to receipt.)

For application in lower temperatures (5°C - 25°C) or when rapid overcoating/access is required a Winter Grade version of this product is available, for information visit our website or [Click Here](#) for the Technical Data Sheet.

## COLOUR RANGE

Ready Mixed:

Light Grey, Mid Grey, Dark Grey, White, Black, Tile Red, Mid Green, Signal Red, Mid Blue, Safety Yellow.

Also available (Minimum Order Quantities and increased costs may apply):

Most RAL Classic, BS4800, BS381C, RAL Design and NCS - excluding metallic and fluorescent shades.

## SLIP RESISTANCE

Should a non-slip finish be required, 508 Fine Particle Anti-Slip Additive can be added to the coating during mixing prior to application to produce an even and easily cleanable texture to the dried surface.

Alternatively, the 'Anti Slip' option can be selected when purchasing the product and the 250 micron grade of 508 Anti-Slip Additive will be added at 2.4% prior to receipt.

If a more aggressive anti-slip finish is required 504 Standard Anti-Slip Additive or 505 Large Anti-Slip Additive can be scattered onto the first coat of 402 Damp Proof Coating whilst still wet (Full broadcast at approximately 2kg/m<sup>2</sup> or a partial scatter at 0.5kg/m<sup>2</sup>).

The following day any excess aggregate may be swept from the surface using a clean brush prior to application of the second coat to 'sandwich' the anti-slip additive.

**5kg unit** add 200g  
**15kg unit** add 600g

**Dry PTV** 49-51  
**Wet PTV** 40-43

### PTV RATINGS:

Slip potential classifications from Pendulum Test Values

PTV	Slip Potential
< 25	High
25 - 35	Moderate
> 35	Low

The above results must only be used as a general guideline as the slip resistance of a cured resin coating can vary considerably due to many factors including: application technique, variations in film thickness, dispersion of the anti-slip texturing additive and the surface variations of the substrate and location to where it will be applied.

To obtain accurate PTV readings that are site specific (if required) it is strongly recommended that a slip assessment pendulum test is undertaken on each specific site after completion of the installation when the resin has fully cured.

A full copy of the official test report is available upon request.

## ADVANTAGES

- Provides a surface damp-proof membrane
- Allows rapid laying of floor toppings to power floated concrete
- Solvent free, low odour
- Coloured to monitor progress
- Low viscosity, easily applied
- Excellent adhesion
- Surface tolerant
- Excellent resistance to water, grease and oil
- Can be used as a primer or finished floor coating
- Recommended application temperature 10°C - 30°C

## RECOMMENDED USES

- As a surface damp-proof membrane
- As a moisture suppressant on concrete and sand/cement screeds
- As a damp tolerant primer for concrete and resin screeds
- As a surface and damp tolerant floor coating

## TYPICAL PROPERTIES

<b>Pot life @ 20°C:</b>	45 Minutes
<b>Pot life @ 10°C:</b>	90 Minutes
<b>Tack Free Time @20°C:</b>	6 hours
<b>Hard Dry Time @ 20°C:</b>	14 hours
<b>Adhesive strength to damp concrete:</b>	3.6MPa (concrete failure)
<b>Flexural Strength:</b>	64 MPa
<b>Water Absorption:</b>	<0.2% after 7 days immersion

## PACK SIZES

- 5kg composite packs (including base, hardener)
- 15kg composite packs (including base, hardener)

## COVERAGE

- 3m<sup>2</sup>/kg first coat
- 4m<sup>2</sup>/kg second coat

## SURFACE PREPARATION

Concrete surfaces shall be sound, clean and free from dust laitance and other contaminants. Suitable mechanical treatments such as vacuum grit blasting is recommended to ensure the removal of contaminants and to provide a 'key' for 402 Damp Proof Coating.

Moisture testing of the substrate in accordance with BS8203, shall be carried out on new concrete floors. A sub floor moisture reading of 97% R.H. can be accommodated by 402 Damp Proof Coating.

If readings exceed this figure, then the floor must be allowed to dry out further.

## MIXING

Pour the contents of the curing agent tin into the base container and thoroughly mix, preferably by mechanical means until a uniform colour and consistency is achieved.

### Mixing Ratio (Clear)

By Volume = 1.65 Base : 1 Curing Agent  
By Weight = 100 Base : 56.2 Curing Agent

### Mixing Ratio (Colour)

By Volume = 2.02 Base : 1 Curing Agent  
By Weight = 100 Base : 34.4 Curing Agent

## APPLICATION

### 1. As a damp proof membrane

a) Two coat application (R.H>92%).

Apply a first coat of 402 Damp Proof Coating red, by brush, roller or airless spray to the prepared substrate at a nominal rate of 3m<sup>2</sup>/kg.

Within 24 hours apply a coat of 402 Damp Proof Coating grey at a nominal rate of 4m<sup>2</sup>/kg.

b) Single coat application (R.H<92%).

Apply a coat of 402 Damp Proof Coating (grey, red, or clear) at a nominal rate of 3m<sup>2</sup>/kg.

### 2. As a primer/coating

As a coating, apply 1 or 2 coats of 402 Damp Proof Coating at a nominal rate of 3m<sup>2</sup>/kg per coat.

Allow 14 hours @ 20°C prior to applying the second coat. Apply by brush, roller or airless spray.

## EQUIPMENT CLEANING

Clean equipment with [109 Tool Cleaner](#) prior to curing of the coating.

## STORAGE & SHELF LIFE

- Store in dry conditions at temperatures between 10°C and 25°C
- Do not expose to freezing conditions

402 Damp Proof Coating has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with manufacturer's instructions.

## LIMITATIONS

- Do not apply to surfaces with standing water
- Do not apply at temperatures of 3°C or less

## HEALTH & SAFETY

- Avoid contact of the material with skin and eyes
- Wear gloves and goggles
- Wash off splashes immediately with soap and water

Please refer to Material Safety Data Sheet for additional Information.

402 Damp Proof Coating shall be applied strictly in accordance with the manufacturer's instructions.

For specific advice regarding any aspect of this product, please consult our Technical Department.

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## CAUTION

- This product is for professional use only
- Applicators must be experienced and able to prepare and apply the coating correctly according to all relevant documentation
- If in doubt, contact our Technical Department before commencing any work