

**Kestral**

Construction Products

Kestral Construction Products Ltd

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TECHNICAL DATA SHEET  
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# CELLA-COTE

## PRODUCT DESCRIPTION

CELLA-COTE is a two pack, solvent free epoxy resin, surface applied damp proof membrane and primer.

## USES

CELLA-COTE has been developed as a primer system for concrete and for use in applications where high moisture levels are present. It can also be used as a surface applied damp proof membrane for suppressing residual moisture on concrete and masonry walls and floors.

## BENEFITS

### DAMP TOLERANT

Can be applied to damp concrete.

### EXCELLENT ADHESION

Will provide excellent adhesion even when applied to damp concrete.

### SEAMLESS MEMBRANE

Provides an integral surface applied damp proof membrane. Independent tests show CELLA-COTE will resist 10 bar negative pressure (equivalent to 100 metre head of water).

### LOW ODOUR

Solvent free. Can be used in food environments.

### RAPID REPAIRS

Allows the early application of screeds or coatings onto new concrete.

### SUITABLE FOR USE

In constructions compliant with British Standard Code of Practice BS 8102:1990 Grades 2 – 4 Type A (Tanked Protection). **Note.** A full assessment of the structural capabilities of the building must be conducted in accordance with BS 8102 to include ground water levels.

## TECHNICAL DATA

Colour	Blue
Density	1.1 gm/cc
Bond strengths: 30n concrete	Concrete failure
Compressive Strength	109N/mm DIN 1164
Bonding/Flexural Strength	40 N/mm
Tensile Strength	41 N/mm
Bond Strength to Steel	Rusty Steel under water 4.4 N/mm
Bond Strength to Concrete	Stronger than concrete
Pot Life	25 mins @ 20°C
Application Temperature	5°C to 35°C
Coverage/Usage*	Typically 3 - 4 m <sup>2</sup> /L
Pack Sizes	5 Litre kits

\* Coverage is calculated from practical experience on common building substrates such as brick & concrete but will be greatly reduced on very porous surfaces, such as block work.

## METHOD OF USE

### Surface Preparation

Concrete and cementitious surfaces must be free from laitance, dust, oil or grease residues, with an open textured surface. Vacuum controlled blasting is recommended.

If acid etching has been used, the surface should be thoroughly cleaned to remove all residues.

Although the product can be applied to a damp substrate, any standing water must first be removed and the surface wiped dry.

If the mortar is in poor condition you will need to re-point to ensure that the membrane adheres effectively and permanently.

## Mixing

Add the complete contents of the B Pack to the A Pack and mix thoroughly with a slow speed drill and paddle for at least two minutes. Do not mix by hand or part mix packs.

## Application

Pour the mixed CELLA-COTE into one or more roller trays, and apply by brush or roller evenly to the surface, ensuring that the applied coating is continuous and free from pinholes, and at the recommended coverage rate of 3 – 4 m<sup>2</sup>/L. When cured (8 – 36 hours at 20 C) apply a second coat of CELLA-COTE by brush or roller evenly to the surface at right angles to the first.

**Note: CELLA-COTE must be applied within 25 minutes of mixing, and at high ambient temperatures this time can be even shorter.**

To maximise application time pour mixed CELLA-COTE into roller trays as soon as mixing is complete.

## Decoration

Floors:

Epoxy Resin Screeds should be applied whilst the second coat of CELLA-COTE is tacky (approx. 4 - 8 hours after application).

Walls & Floors:

Epoxy Coatings can be applied 24 hours (minimum) after applying the second coat of CELLA-COTE Other screeds, paints, dry lining etc. can be applied after the second coat has become tack free, this is usually after 8 hours (minimum).

## Note

**Water based paints and adhesives:** (includes dab and board plaster) must be applied within 48 hours of applying the second coat of CELLA-COTE.

**Plaster Skim:** If waiting more than 24 hours before applying a plaster skim blind the second coat of CELLA-COTE with sand while it is still tacky.

We also recommend that adequate ventilation of the cellar and any cavity behind dry lining is provided to minimise condensation.

## Fixings

**WARNING: Care must be taken not to puncture the membrane during subsequent fixing operations.**

If installation of electrics or fixings is planned, we recommend that the surface is dry lined with dab and board and a plaster fix or drylining back box is attached to the board. If the area is to be used as a kitchen area a 2 inch gap between the board and wall on which your cooker will be placed is necessary, as this is the depth of the relevant back box. In all other rooms a 1 inch gap is sufficient.

## Joints

Expansion joints should not be bridged with CELLA-COTE. These must be sealed with a suitable impervious jointing compound, after application of the surface damp proof membrane.

## Cleaning of Tools

Immediately after use, clean all tools and mixing equipment with a suitable solvent cleaner.

## STORAGE

CELLA-COTE must be stored in cool dry conditions away from moisture or direct sunlight. The product will have a shelf life of 12 months, when stored in these conditions in original, unopened containers.

## HEALTH & SAFETY

Please refer to the product Health & Safety Data Sheet for detailed information regarding the use and handling of this product.

*We endeavour to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our product is used and it is therefore important that the end user satisfy himself by prior testing that the product is suitable for his specific application and that the actual conditions of use are suitable. Accordingly, no responsibility can be accepted, or any warranty given by ourselves, our representatives, agents or distributors, other than that the product as supplied by us will meet our written specification. Products are sold subject to our standard conditions of sale and each purchaser and end user should at all times ensure that he has consulted our latest product instructions and safety information.*