

# E 125

## Acrylic copolymer based admixture, bonding agent and waterproof coating

### DESCRIPTION

E 125 is a modified acrylic copolymer liquid designed for use as a multi-purpose additive with cement to improve the bond strength, flexibility, workability, water resistance etc. E 125 acts an excellent bonding agent for all cement renders and concrete repair.

### USES

- Waterproof coating for wet areas, kitchens, balconies, terraces
- Bonding agent prior to applying renders, screeds/concrete toppings
- Corrosion protection to reinforcement bars
- As patching mortar for re-profiling of chipped edges
- As an admixture with cement paint for improved water resistance and covering capacity

### FEATURES

- Water resistant
- Improved flexibility and tensile strength, allowing mortars to be applied in thinner sections.
- Excellent bond with cementitious substrates
- Seals porosity of concrete surfaces
- Reduced water demand for equivalent workability.
- Excellent impermeability to water soluble chemicals and salts
- Resistance to penetration of chloride ions and carbon dioxide
- Water based: non toxic, safe to use, low odour & easy cleaning
- UV stable: Can be left exposed

### PHYSICAL PROPERTIES

E 125	@ 27 ± 1°C
Appearance	Milky white coloured free flowing liquid
Specific gravity	1.025 - 1.035
Re-coat time	4 - 6 hours
Full cure	14 days
pH	> 7
IS 9103-1999	
Permeability of waterproofing coating	18.21 mm @ 5 bar for 72 hours
DIN 1048 (Part 5) - 1991	
Solid Content	30 to 32% (w/w)
IS 101-1993	
Ash content	< 1%
IS 101-1993	
Viscosity by Ford Cup No.4	11 - 13 seconds

Bond strength to Concrete @ 14 days ASTM C882/87 > 2 N/mm<sup>2</sup> (minimum or concrete failure)

Compressive Strength IS 516 @ 28 days (using OPC 53 cement) > 30 N/mm<sup>2</sup> @ 28 days

### PACK SIZE

1 litre, 5 litres & 20 litres

### COVERAGE

#### a. As a Coating/Slurry

Mix proportion: 1 : 2 (E 125 : OPC Cement)

Material	One coat on concrete (kg/m <sup>2</sup> )	Two coat on concrete (kg/m <sup>2</sup> )
E 125	0.25	0.375
OPC Cement	0.50	0.750

#### b. As a Topping

Material	Quantities of material to cover 1m <sup>2</sup> @ 1.5mm thickness
E 125	0.65 kg
OPC Cement	1.30 kg
Fine silica sand	1.30 kg
Total weight	3.25 kg

### APPLICATION INSTRUCTIONS

#### Surface Preparation

The surface to be treated must be dry, clean, structurally sound, free from oil, grease, wax, polish, laitance, dust and other barrier materials. New substrate shall be allowed to cure as per standard procedure

All cracks, construction joints, pipe penetration, bore packing and corners shall be treated prior to application of waterproofing membrane.

#### Mixing & Application

##### A) As a bonding slurry

Dampen the concrete surface with clean water to achieve a SSD (saturated surface dry) condition. Prepare bonding slurry by mixing 1 part E 125 with 2 parts OPC cement (by volume). Using a stiff brush apply one coat of the bonding slurry onto the prepared surface. The subsequent toppings should be applied when the bonding slurry coat is still wet.

Note: If the bonding slurry coat has dried, apply another coat

##### B) As a waterproof coating

Dampen the concrete surface with clean water to achieve a SSD (saturated surface dry) condition. Prepare a mix with 1 part E 125: 2 parts OPC cement (by volume). Using a stiff brush apply two coats of the mix onto the prepared damp surface with a re-coat interval of 4 - 6 hours.

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### C) As a brush topping

Dampen the concrete surface with clean water to achieve a SSD (saturated surface dry) condition. Prepare a mix with 1 part E 125: 2 parts OPC cement : 2 parts of fine silica sand (by weight) and using a brush apply as a topping at 1.5mm thickness.

### D) As a patching mortar

Prepare a mix with 1 part E 125: 2 parts OPC cement : 3 parts of fine silica sand (by weight) and fill or level all depressions and voids using a mason's trowel.

### E) As a cement paint admixture

Prepare a homogenous mix with 3 - 4 litres of E 125 with 50 kg cement paint. Using a brush apply two coats of the mix with a re-coat interval of 2 - 4 hours. Addition of E 125 increases the covering capacity of cement paint.

### CURING

Allow to air dry initially for about 4 - 6 hours. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After 6 hours, moist curing shall be done for the next 24 hours by spraying/sprinkling of potable water. During this period at no point of time should the coating be left completely dry or submerged in water.

### CLEANING

Wash hands, brushes, rollers, etc with water while the material is still fresh. All tools should be cleaned with water immediately after use. If delayed, coarse wire brushing may be required to clean the hardened material.

### STORAGE AND SHELF LIFE

E 125 must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught. If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

### PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

### DISPOSAL/SPILLAGE

Spillage of the product should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

For further information please refer to the Material Safety Data Sheet.

### CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

### NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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