

# EMACO™ BONDING AGENT

## Acrylic bonding agent & curing aid

### Description

EMACO BONDING AGENT is a single component white emulsion polymer, based upon modified acrylic resins. It is formulated for use as a bonding agent for cementitious mortars, with exceptional grab characteristics and develops a tenacious bond of the new mortar to the host concrete.

EMACO BONDING AGENT may be used in external or internal applications, but for permanently wet or submerged service conditions the use of RHEOMIX 141 in a cement bonding slurry is suggested as preferable.

### Uses

EMACO BONDING AGENT is recommended for use as the primer for repair mortars both for vertical and overhead applications. It is also recommended as a curing aid, to reduce the incidence of early age cracking in patch repairs.

### Typical properties

Aspect	: Milky white liquid
% Solids	: > 40 %
Adhesive bond strength to concrete (ASTM D4541)	: >1.5 MPa at 7 days (concrete failure)
Curing efficiency #	: > 55%

#The curing efficiency of EMACO BONDING AGENT was measured to the UK's DOT Clause 2709 modified to include mortar pre-drying period.

### Specification Clause

The Bonding agent cum curing aid shall be EMACO BONDING AGENT, a single component white emulsion polymer, based upon modified acrylic resins. The polymer shall exceed 55% curing efficiency while tested as per UK's DOT clause 2709 and shall enable bond strength in excess of 1.5 MPa at 7 days for overlays such as polymer modified mortars and fresh concrete to sound concrete substrates.

### Directions for use

EMACO BONDING AGENT is supplied ready for use and under no circumstances should it be diluted with water or solvents.

The quality of surface preparation has a direct influence on the effectiveness of bonding agent. Saw cut the perimeter of areas to be treated to a minimum depth of 15mm to avoid feather edging of the repair mortar. Remove loose, contaminated, or damaged concrete and concrete around corroded reinforcing steel, to leave a gap of minimum 20mm behind steel. Remove all corrosion products from the steel by

mechanical wire brushing before applying a single coat of CONCRECIVE ZRi -Zinc Rich Primer.

Prior to application of the EMACO BONDING AGENT, the substrate should be soaked with copious amounts of clean water for a minimum period of 1 hour. Remove standing surface water from flatwork.

Apply EMACO BONDING AGENT using a long brush in a circular motion, forcing the bonding agent into the pores & crevices, and ensuring the surface is completely covered.

Apply the repair mortar while the primer is still wet or tacky. Reapply the bonding agent if it had gone dry. Avoid puddles

Apply EMACO BONDING AGENT as a curing aid to cementitious repairs, using a low pressure sprayer. When hot drying wind prevails, additional precautions such as wet hessian polythene or ponding should be employed and the area sheltered.

Brushes and other equipment may be washed immediately after use with water.

### Coverage

As bonding agent: 4 – 6 m<sup>2</sup>/litre, depending on the substrate absorption.

As curing aid: 4 – 5 m<sup>2</sup>/Litre

### Packaging

EMACO BONDING AGENT is supplied in 5 kg and 20 kg containers.

### Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice please consult BASF's Technical Services Department.



The Chemical Company

### Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

### Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

### Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

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