

CONCRESlVE[®] 1015

Combined corrosion protection and bonding agent

Description

CONCRESlVE[®] 1015 is a specially formulated primer / bonding slurry designed to bond cementitious repair products from the EMACO concrete repair system to stable concrete substrates.

CONCRESlVE[®] 1015 has a unique two fold action ensuring repairs are permanently bonded whilst providing a protective matrix around reinforcing steel. CONCRESlVE[®] 1015 restores the alkalinity around the concrete reinforcement and thus prevents further corrosion.

Primary uses

- To provide a passivating protective matrix for reinforcing steel.
- As a bonding agent for use with the EMACO repair and renovation system.

Advantages

- Prevents further corrosion of steel.
- Excellent bond to concrete and steel.
- Hydraulic cement based - total compatibility with concrete.
- Pre-packed system.

Packaging

CONCRESlVE[®] 1015 is supplied in 2 kg packs.

Typical properties*

Mixed density @ 25°C	2.0 g/cm ³
pH:	13
Slant shear bond strength (BS 6319) Part 4:	>25 N/mm ²
Pot life at 25°C:	>45 minutes
Resistance to chloride diffusion:	Excellent
Water absorption:	< 0.2%
Colour:	Grey

Composition

CONCRESlVE[®] 1015 is comprised of specially selected hydraulic cements, corrosion inhibitors and acrylic polymer dispersions.

Appearance and finish

CONCRESlVE[®] 1015 consists of a single pack containing grey powder and a liquid acrylic latex in a plastic bottle. The pre-packed components require only on-site mixing to form a creamy slurry. The slurry can be easily applied by brush onto concrete or steel to form a continuous protective coating.

Application procedure

Preparation:

It is essential that the surface of the concrete to be bonded is sound, clean and uncontaminated. Steel corrosion must be removed from reinforcement before bonding.

Identify the decayed or damaged area. Mark clearly. Saw cut the perimeter of the area to be treated (or cut neatly, keeping the sides of the area as square as possible). Defective materials must be removed carefully using suitable reducing plant, needle guns or sharp tools and chipping hammers. The force applied must not be such as will damage sound material beneath, for this reason jack hammers must never be used. If necessary, obtain the recommended minimum depth of 10mm by further reduction.

If unsound material or corroded reinforcement is found to extend beyond the pre-marked areas, extend the cutting as necessary treating the edges as above. If reinforcement is corroded, ensure that the back of the reinforcement has also been exposed. The prepared surface should be lightly textured but firm. Test the prepared surface for

CONCRECRESIVE[®] 1015

soundness - probe to ensure that there are no weak areas. Brush and clean all loose debris, dust and free water. An air lance (using oil-free compressed air) or an industrial vacuum aids thorough cleaning.

Reinforcement should have all the corrosion products removed by use of power tools, abrasive blasting, water jetting or wire brushing, as appropriate. For basic repairs, clean the steel removing all corrosion products and leaving clean. Where chlorides are present in significant amounts, all rust must be removed by grit-blasting. After cleaning the reinforcement it is advisable to finally wash it with clean water to remove any traces of soluble salts).

Priming:

Mix the CONCRECRESIVE[®] 1015 by slowly adding the latex to the powder and stirring fully until a smooth lump free paste is obtained. Avoid excessive mixing. Brush apply the slurry primer over the freshly prepared cleaned and dry reinforcing steel. Avoid pin-holing and ensure a continuous coating is achieved.

Allow to dry. Pre-wet prepared concrete surface ensuring that concrete is saturated but free of surface water. Re-prime reinforcement and prime concrete. Place EMACO mortar without delay whilst the CONCRECRESIVE[®] 1015 is still wet.

Coverage

Steel: 100gm/linear metre/16mm diameter of steel at 1mm thick coating approx.

Concrete: 970 gm/m² approx.

Storage

Store under cover, out of direct sunlight, clear of the ground on pallets protected from rainfall. Avoid excessive compaction. Protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment.

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

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

Note

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

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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*Properties listed are only for guidance and are not a guarantee of performance

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