

MIXBUILD BS

Two component Corrosion protection and bonding system

Mixbuild BS is a specially formulated blend of selected hydraulic cements, corrosion inhibitors and acrylic polymer dispersions for using as a primer / bonding agent slurry recommended for use in new construction and maintenance. Excellent abrasion resistance minimizes transit and handling damages. It is designed to bond cementitious repair products from the Mixbuild concrete repair system to stable concrete substrates.

Mixbuild BS performs an excellent two fold action ensuring repairs are permanently bonded whilst providing a protective coating around reinforcing steel. Mixbuild BS restores the alkalinity around the concrete reinforcement and thus prevents further growth of corrosion

Appropriation

Used in places where hi corrosion is prevalent

Reinforcement steel bars: to provide a passivating protective coating

As a bonding agent for use with Mixbuild cementitious / epoxy repair systems

Characteristics

Easy to apply, high performance, anti corrosive primer

Suitable for concrete reinforcement bar as primer

Excellent adhesion to steel and concrete

Hydraulic cement based, total; compatibility with concrete

Prevents further growth of corrosion of steel

Technical Data & Properties

Slant shear bond strength (BS6319) Part 4: $>25\text{N/mm}^2$

PH: 13

Mixed density@25°C: $>2.0\text{g/cm}^3$

Resistance to chloride diffusion: Excellent

Water absorption: $<0.2\%$

Pot life : >45 minutes @25°C

Colour: Grey

Product Management

Surface preparation: The surface to be coated must be clean and dry. Remove weld spatter, smooth weld seams and sharp edges of the surface to be coated. Oil and grease should be removed. Steel corrosion must be removed from the reinforcement before bonding by applying Mixguard RP – rust remover / converter.

Method of application: Mark the decayed or damaged area, 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 materials beneath, for this reason jack hammers not recommended. If necessary obtain a recommended minimum depth of 10mm by further reduction

In case of 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 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 through cleaning.

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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 leveling 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 Mixbuild BS by slowly adding the latex to powder and stir fully until a smooth lump free paste is obtained. Avoid excessive mixing. Brush apply the slurry primer over the freshly prepared clean 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 Mixbuild mortar without delay whilst the Mixbuild BS is still wet.

Coverage:

Steel: 100gm / mtr / 16mm dia of steel @1mm thick coating
Concrete: 950gm / m² approx

Cleaning: Tools should be cleaned with water immediately after use. Hardened materials can be cleaned mechanically only

Packing & Storage

Mixbuild BS consists of a one pack grey powder and liquid acrylic latex in a plastic bottle. The pre measured components require only a site mixing to form creamy slurry. The slurry can be easily applied by brush on to concrete or steel to form a continuous protective coating.

Mixbuild BS should be stored in cool, dry and shaded warehouses. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

Mixbuild BS contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any contact to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each Fab product

Rev. Nov-10/01

Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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