

Technical Data Sheet - TDS



RocBond ARX

Single component acrylic bonding agent for use with RocBuild repair mortars

PRODUCT DESCRIPTION

RocBond ARX is a single component, acrylic polymer based bonding agent. It is formulated and designed for use as a bonding and curing agent for use with cementations systems especially RocBuild Mortars such as RocBuild Tg.

RocBond ARX is supplied ready for use exhibits excellent grab and develops a tenacious bond between the repair mortar and the existing concrete.

FIELD OF APPLICATION

RocBond ARX may be used with many construction materials to provide improved adhesion. Typical substrates will be concrete, masonry, stonework, plaster etc.

RocBond ARX is used for bonding of repair mortars, new concrete to old concrete. Recommended primer for use with all RocBuild repair mortars. Its tenacious grab makes it ideal for overhead and vertical applications. It can also be used as a curing aid; in this case application must take place immediately upon finishing and the area must be fully protected from rapid drying out

ADVANTAGES

- ▶ Single component, As a penetrative primer for Cementations substrates
- ▶ Supplied ready for use. Reduces the permeability of mortar
- ▶ Improves bond, flexural and tensile strength of cementitious mixes
- ▶ Brush applied either as a primer or as a curing aid. Tenacious bond to dry and damp substrates.
- ▶ As an admixture for improving the mechanical properties of cementitious mixes

DIRECTIONS FOR USE

Surface Preparation: Ensure surfaces are clean, dry and free from dust, dirt, oil, grease, laitance etc.

Ensure that reinforcing steel is clean and free from scale and rust. When repairing damaged concrete, ensure that the concrete has been cut back to thoroughly sound substrate.

All perimeter edges must be saw-cut to ensure a minimum depth of repair mortar and to avoid feather edges.

Expose fully all corroded steel in the areas to be repaired. Remove loose scale and corrosion deposits. Grit-blast to clean the steel to SA 2½, ensure the back of the steel is clean.

Concrete Priming: The cleaned substrate must be fully soaked with clean water prior to priming. The ideal condition is saturated surface dry (SSD). Brush RocBond ARX well into the concrete surface; ensure complete coverage but no ponding. Use as supplied and do not dilute with water.

Rebar Priming: Steel reinforcement should be coated with RocBuild ZP. Ensure full coverage and no pinholes. Extra caution is required around laps and the back of the steel. Allow to dry

Apply the repair mortar or screed whilst the primer is still tacky. If the primer becomes dry reapply as directed above.

Curing Aid: When used for curing RocBond ARX can be brush or spray applied. Always cover repaired areas to protect from drying winds and excessive heat. In extreme conditions water ponding will also be required.

RocBond ARX can be used as a mortar admixture and suitable repair mortar can be prepared following the mix design below.

OPC : 50 kg.
Zone 2 sand : 150 kg.
TufBondAR : 10 litres
Water : As required for consistency.

COVERAGE RATES

Consumption rates vary according to the application:

As a curing aid : 4-5 m² per liter.
As a bonding agent : 5-6 m² per liter.
As an admixture : 10litres/ 50 kg OPC.

CLEANING

Clean tools and equipment immediately after use with water. Once cured RocBond ARX can only be removed by mechanical methods

TYPICAL PROPERTIES

Component	Single pack.
Toxicity:	Non toxic
Form	liquid
Specific gravity ASTM D1475	1.03 ±0.03gm/cc
Compressive strength BS 6319-2	> 10-15% than control
Flexural strength BS 6319-3	> 5-10% than control
Tensile strength BS 6319-7	> 5-10% than control
Tensile bond Strength ASTM C932	> 1 N/mm ²
Bond strength ASTM C1042	> 1.0 N/mm ²

PACKAGING & STORAGE

RocBond ARX is packed in 5 ltr and 15 ltr units. Store in shaded areas away from direct sunlight Shelf life will be 12 months when stored in temperatures below 30oC.

HEALTH & SAFETY

As with all CIL chemical products, care should be taken to avoid contact with skin, eyes, mouth and foodstuffs. Treat splashes to eyes and skin immediately, by thorough washing with clean water. If ingested seek medical attention

OTHER PRODUCTS AVAILABLE FROM CIL.

RocCrete Combo - A Two-Part acrylic Modified Highly flexible Cementitious Waterproof Coating.

RocShield PUD30 - High performance Polyurethane dispersant based waterproofing coating

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Product representative or visit our website for current technical data and instructions.

Disclaimer

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