

ConRep FR Mortar

Polymer-modified, Cementitious
Fiber Re-Enforced Repairing Mortar

DESCRIPTION

ConRep FR MORTAR is supplied as ready to use pre-packed, polymer-modified single component, cementitious repairing mortar specifically formulated for the quick and reliable repair of new and existing concrete. The specially selected cements and hard wearing aggregates & Fiber Particles contained in formulated product allow the application of large areas with exceptional adhesion to concrete and masonry materials with negligible shrinkage.

USES:

- Vertical & overhead repairing of the damaged concrete.
- Repairing of honeycombed surfaces.
- For repairing concrete voids greater than 10 mm deep.
- Large scale repairs where form work cannot be erected.
- Repairing of retaining walls, bridges, parking structures, ceiling & sloppy surfaces

ADVANTAGES

- Excellent adhesion to existing concrete.
- High Strength
- Easy application
- Durable
- Excellent resistance to freeze-thaw cycling.
- Cost effective

TECHNICAL SPECS & PROPERTIES

Appearance	Cementitious Powder
Packing	20 Kgs. Bag
Mixing of Water	2.0 to 2.8 liters
Density	2.0 Kg./ Ltr. (fresh Mortar)
Pot Life	50 minutes @ 20 ^o C
Setting Time @ 25 ^o C	Initial : 02 hrs. Final : 10 Hrs.
Compressive Strength	1 day = 30 MPa 7 days = 50 MPa 28 days = 55 MPa
Shelf Life	12 Months at 15-30 ^o , stored in covered area.

APPLICATION INSTRUCTIONS

Surface Preparation:

Concrete surface must be structurally sound and free of any loose substrate and free of dust, dirt, paint, oil and other contaminants.

Priming:

Priming with **ConBond SBR** is essential to ensure good adhesion and optimum build. Where the substrate is very porous pre-dampening with water may be required. Free water on the surface will reduce the bond and ultimate strength.

Mixing:

ConRep FR MORTAR is suitable for mixing using a drill and suitable paddle or by hand where only a small quantity is required.

Add appropriate amount of water for the batch size and then add the dry powder to achieve a smooth, soft mortar consistency. Always add the

powder to the water while mixing slowly to avoid lumps. Only mix that quantity of material that can be used within the setting time.

APPLICATION:

Apply the mixed **ConRep FR MORTAR** to the substrate using a trowel to give the required finished thickness. The maximum thickness applied in any application should be limited to 50 mm. Feather edging should be avoided in patch repairs by saw cutting the edge of repairs to a minimum depth of 10 mm.

CURING:

The application of a thin coat of **ConBond SBR** as a curing membrane will reduce premature drying in repairs. Where repairs are subject to direct sun or strong winds the use of **ConCure WB** is recommended.

CLEAN UP

Clean all equipment with water immediately after use.

PACKAGING

ConRep FR MORTAR is supplied in 20 kg bag.

ConBond SBR is supplied in 5 and 30 liter containers.

ESTIMATING DATA

A 20 kg bag of **ConRep FR MORTAR** will cover approximately 1.0 m² at an average thickness of 10 mm. **ConBond SBR** is used at 6-7 m² per liter. A scabbled surface will reduce the area covered by the primer and topping.

STORAGE

ConRep FR MORTAR is a cement based product which must store in a dry area off the ground.

HEALTH & SAFETY PRECAUTIONS:

Where temperatures is less than 5⁰ C or greater than 35⁰ C are encountered, contact our Technical Staff for specific advice. **ConRep FR MORTAR** is non-toxic, but it is alkaline in nature. Any contact with eyes or skin should be washed off with soap and clean water. Protective gloves, goggles and clothing should be worn. Repeated contact with cementitious products can cause sensitization in some people handling this type of product. Where this occurs, seek medical advice before continuing use.

TECHNICAL SERVICES:

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

Important Note:

RADIANT Construction Technologies manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.