



# R1

## REPAIR EXTRA

ONE COMPONENT ,HIGH STRENGTH FIBER REINFORCED CEMENTITIOUS REPAIR MORTAR

### REPAIR

REPAIR EXTRA is a single component polymer modified and fiber reinforced repair mortar. REPAIR EXTRA is a blend of dry powders, selected aggregate and fibers which when mixed with water produces a throtrophic mortar suit-able for vertical and overhead application.

### APPLICATION

- Repair of all types of structure concrete where high strength and extremely low shrinkage properties are required
- For the repair of vertical and overhead elements
- As are pair mortar for all structural elements in buildings, water retaining structures, industrial plants, bridges, etc..

### ADVANTAGES

- Shrinkage controlled polymer modified cementations repair mortar.
- Easy to apply, single component, required only addition of water.
- Extremely low permeability to water, providing excel- lent production to steel reinforcements and host concrete.
- Thyrotrophic properties allowing extra high build for vertical and overhead application.
- Suitable for internal and external application.
- Water vapor permeable.
- Cost effective, hand applied no form-work is required.

### YIELD

Approximately 2m<sup>2</sup>/25 kg bag

### PACKAGE

REPAIR EXTRA is available in 25kg bags.

### STORAGE

REPAIR EXTRA has a shelf life of 12 months if stored at temperature between 2°C AND 50°C in original un opened bags. If these conditions are exceeded, POLYWED technical department should be contacted for advice.

### TECHNICAL DATA

Appearance	grey powder containing micro fine fibers
Plastic density approx.	2300 kg/m <sup>3</sup>
Compressive strength at	>25N/mm <sup>2</sup> at1 day
20°C BS1881 :Part 116:	>70N/mm <sup>2</sup> at28days
Indirect tensile strength	3.6N/mm <sup>2</sup> at28days
Mixing ratio	6 liter of water for 25kg bag of repair extra

### CAUTIONS

#### Health and Safety:

REPAIR EXTRA may cause irritation to skin or eyes. In case of accidental contact with eyes. Immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

#### Fire:

REPAIR EXTRA is nonflammable.

**FOR MORE INFORMATION, PLEASE CONTACT PHONE NO. 00966126204224**

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### METHOD OF USE

#### Substrate preparation:

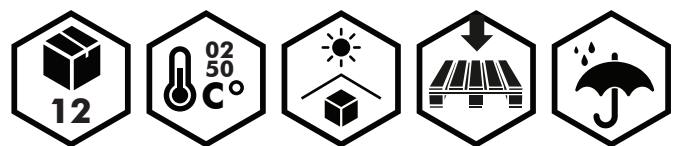
- All damaged and weak concrete should be cut back to reach sound concrete and or to minimum depth of at least 10mm.
- Corroded steel reinforcement should be grit blasted to remove all rust traces.
- In case of significant loss in the steel reinforcement crosssection, the steel should be replaced.
- Remove all concrete form around exposed steel reinforcement by 10 mm thickness.
- The perimeters of the repair area should be saw cut to a minimum depth of 10 mm.
- The prepared area should be cleaned thoroughly by brush and/or compressed air.

#### Mixing:

- To ensure proper mixing, a mechanically powder mixer or drill fitted with suitable paddle should be used
- 6 liter of clean water should be added to clean container. The powder is then added to slowly to the water while mixing continuously with low speed mixer/drill (400-600rpm).mixing time should be continued for 3 minutes until uniform consistency is obtained.

### PLACING & FINISHING

- REPAIR EXTRA can be applied by trowel or hand. The mixed mortar should be applied using firm pressure to fully compact the mortar to ensure good adhesion with the steel reinforcement and the substrate. Finishing and leveling should be carried out initially by wooden or plastic float. Final finishing should be carried out using steel float.



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