



## PRODUCT DESCRIPTION:

**BestRepair-100** is a one-component, dual shrinkage compensated high strength repair mortar with fiber reinforcement for structural concrete repairs.

- Can be applied vertically or overhead by low-pressure wet spraying or hand troweling.
- High early and ultimate strengths.
- No additional bonding agent required.
- Good impact and thermal resistance.
- Impermeable to aggressive elements.
- Capable of vapour diffusion and resistant to frost and dew-salt.
- Resists the penetration of CO<sub>2</sub> and moisture (carbonization).
- Non-corrosive to steel or iron.

## RECOMMENDED USES:

- Repairs to bridges parking garages, tunnels etc.
- Repairs to piers, navigation locks, dams, sea walls & marine structures.
- Repairs to industrial structures such as oil storage facilities, silos, chimneys.
- Extensive repairs to beams, columns and other structural elements.
- Repair of structural members subjected to repetitive loading.

TECHNICAL DATA	
Type	100
Color	Grey powder
Water/powder ratio, by weight	0.14
Density of freshly mixed mortar kg/dm <sup>3</sup>	2.3
Compressive strength 01 Day	2,900 PSI
ASTM C109, 7cm cube 03 Days	7,250 PSI
ASTM C109, 7cm cube 07 Days	8,700 PSI
ASTM C109, 7cm cube 28 Days	10,150 PSI
Flexural strength (ASTM C348)	> 1,305 PSI
Tensile strength (ASTM C496)	> 580 PSI
Water penetration (DIN 1048)	< 5 mm





**BEST CONSTRUCTION**

**CHEMICALS**

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### Important Information:

- Supplied in: 25 kg bags.  
Storage: In a dry, frost free area, out of direct sunlight.  
Shelf life: 12 months.  
Hazard Class: No dangerous goods. Consult MSDS for details.  
Consumption: One 25kg bag of BestRepair-100 mixed with 3.5 liters water yield approximately 12.4 liters.  
Approximately four bags of 25kg are required per 1m<sup>2</sup> area at 50mm thick application.

### Application Guidelines:

#### Surface preparation:

Anything that can impair adhesion must be removed including any grease, oil, dust, curing compounds or any previous coating using grit ballasting, milling or grinding. The concrete surface must be chipped to ensure better bonding. New concrete should have compressive strength of at least 25 MPa. Where rebars are corroded, cut back the concrete to at least 20mm behind rebar. Grit blast around the rebar to remove corrosion products. Replace the affected part of rebar if the diameter after grit blasting is found reduced by more than 20% of the original diameter.

#### Mixing:

BestRepair-100 must be mixed mechanically. Use a heavy-duty, slow speed drill with spiral mixing paddle or pan type mixers etc. Place approximately 80% of the required water in the mix. Keeping the mixer running, add powder slowly. Mix for 3-4 minutes or until a lump-free mix is obtained. Add from the balance 20% water, while continuing to mix, until the desired consistency is achieved.

#### Placing:

BestRepair-100 has been formulated for both trowel and spray application, depending on the size and location of the repair area. For best results, before application by trowel, apply the first layer by gloved hand including packing behind the rebar, and then firmly trowel on the rest to the required thickness. When applying by hand, force BestRepair-100 tightly on to the substrate to ensure sturdy contact with the pre-wetted substrate.

#### Curing:

Particular care is required in hot and/or windy conditions. Cover the work with plastic sheet fixed over wet hessian or wet foam rubber. All the standards mentioned in AC1318 for concrete curing must be followed.



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### STORAGE AND HANDLING PRECAUTIONS:

- Keep away from Heat and Spark Sources
- Keep under shed, away from direct sunlight
- Keep the containers closed in storage
- Never breath the Dust, Mist, Gas, Vapours from the container
- Do not apply during Rain/Fog/Mist/Wind or when the temperature is below 10 °C or above 40 °C.
- Use the paint in ventilation
- Store below 35 °C for best performance
- As long as container is firmly sealed and stored under recommended storage conditions, product can be used within 12-Months of manufacturing date.

### FIRST AIDS:

In Case Of Eye Splashes

- Wash with plenty of Flowing Cold Water
- Immediately consult the physician

In Case of Inhalation (If the Person Feels Dizziness or Unconsciousness)

- Remove the person to Open Fresh Air Area
- Provide artificial breathing if needed
- Consult a Doctor

In Case ingestion

- Drink Plenty of Water or Milk
- Do not induce vomiting
- Consult a doctor

In Case of Skin Contact (If Irritation Is Felt)

- Wash with plenty of Water and Soap
- Consult a doctor if irritation continues

### SPILLAGE HANDLING:

- Do not wipe the place with solvent.
- Use Wood Saw Dust and Sand and thoroughly spread on the spilled paint.
- Gather the mixture, store in some waste drum and dispose-off according to local environment regulations.
- Never throw out the paint in open garbage areas where fire is a norm.

### Disclaimer:

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.

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