



# MICROCRETE S50

Micro concrete in RCC repairing works with high workability



## **DESCRIPTION**

**BYZON MICROCRETE S50** is a fast setting, one component, ready to-use repair mortar for vertical and overhead applications using specialty cement blends. MICROCRETE S50 is a low dust formula also available as a separate item.

## **FEATURS & BENEFITS**

- Excellent bond to the concrete substrate
- Obviates the need for formwork
- saving time and expense of multiple applications
- Polymer-modification provides extremely low permeability to water, carbon dioxide and chlorides

## **AREA OF APPLICATION**

- Vertical and overhead repairs
- General concrete and masonry repairs
- Voids greater than 10 mm deep
- Repairs to honeycombing, Larger scale repairs where formwork cannot be erected

## **METHOD OF APPLICATION**

- Concrete surfaces should be sound, stable, clean and free from laitance, paint, oil, grease, and any residual mold release agents and curing compounds
- Remove destroyed part from particular place up to healthy layer
- Wet the surface by sprinkling clean water
- Place the MICROCRETE S50 prepare paste to patches and let it to set and then cure as recommended

## **DESIGN CRITERIA**

- Dimensional Stability Technology is a major step forward in the general compatibility of repair mortar systems with the host concrete, and the control of shrinkage in particular. Attention to the basic design criteria given below should ensure that the full benefits of this technology are gained in use: Recommended limits for a single application are:
  - Minimum applied thickness : 10 mm (Overhead sections up to 50 mm thick)
  - Vertical sections : up to 50 mm thick
  - Maximum length : up to 3 m
  - Small pockets or horizontal : up to 100 mm thick

## **TECHNICAL INFORMATION**

| <b>PROPERTIES</b>    | <b>RESULT</b>                                                     |
|----------------------|-------------------------------------------------------------------|
| Appearance           | Grey powder                                                       |
| Fresh Wet Density    | 2200 - 2300 kg /m <sup>3</sup>                                    |
| Compressive Strength | 35 N/mm <sup>2</sup> at 7 days<br>45 N/mm <sup>2</sup> at 28 days |
| Flexural Strength    | > 6.5 N/mm <sup>2</sup> at 28 days                                |

## **COMPLIANCE STANDERD**

- ASTM C157-93: Test for drying shrinkageDIN 1048 Pt. 5: Test for permeability
- BS 1881 Pt. 122: Test for water absorption

## **COVERAGE**

- Approx.19.5 kg/m<sup>2</sup> per 10 mm thickness

## **SHELF LIFE**

- 12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

## **PACK SIZE**

- 25 Kg Bag

## **SAFETY PRECAUTIONS**

- Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only..

Note: All technical data tasted in this product data sheet are based on laboratory tests. Actual measured data may vary according to trails and quality of material availability