



MICROCONE PM60

Polymer modified mortar for horizontal and vertical repairing system

Description

MICROCONE PM60 is supplied as a ready to use blend of dry powders, which requires only the addition of clean water to produce a highly consistent, lightweight repair mortar suitable for general purpose concrete and masonry repairs.

Advantages

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

Uses

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

Compliance standard:

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

Technical Information

PROPERTIES	RESULTS
Compressive strength (BS 1881 Pt.1161)	35 N/mm ² at 7 days 40 N/mm ² at 28 days
Flexural strength (BS 6319 Pt. 3)	> 6.5 N/mm ² at 28 days
Drying shrinkage (ASTM C 157-93)	< 300 micro strain 7 days < 500 micro strain 28 days
Permeability (DIN 1048 Part 5)	<10mm
Water absorption	<2%

Benefits

- **Cost effective** – shrinkage control enables repairs to be completed 'right first time'.
- **Enhanced durability** – works in tandem with extremely low Permeability to prolong effective working life.
- **User friendly** – specifically developed to provide an easy to- apply product, suitable for local conditions.
- **Definable performance** – positive benefits are easily demonstrated via a single, simple measurement.

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
 - **Small pockets or horizontal** : up to 100 mm thick
- Maximum length** : up to 3 m

Instruction for use

- Clean the concrete surface from dust, oil, grease if present on surface.
- Remove destroyed part from particular place up to healthy layer
- Wet the surface by sprinkling clean water
- Place the MICROCONE PM60 prepare paste to patches and let it to set and then cure as recommended

Coverage

- Approx.19.5 kg/m³ per 10 mm thickness

Packaging:

- MICROCONE PM60 is supplied in 25 kg bags.

Shelf life:


- MICROCONE PM60 has a shelf life of 12 months; if kept in a dry environment, in its original, unopened packing. If stored in conditions of high humidity and/or temperature, the shelf life may be reduced to as little as 4 months.

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