

MICROCONE 100 PT

Vertical and overhead
cementitious patch work
repair fiber reinforced
mortar



Description:

MICROCONE 100PT 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 generalpurpose concrete and masonry repairs.

Uses:

- 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

Advantages/Characteristics:

- 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
- Thixotropic material

Product Standard Compliance:

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

Company Standard Compliance:



Technical Information:

The following typical results were obtained at a water to powder ratio of 0.18.

Properties	Specification
Appearance	Grey Color Powder
Drying shrinkage (ASTM C 157-93)	< 300 micro strain 7 days < 500 micro strain 28 days
Permeability (DIN 1048 Part 5)	< 10 mm
Compressive strength (BS 1881 Pt.1161)	35 N/mm2 at 7 days 45 N/mm2 at 28 days
Flexural strength (BS 6319 Pt. 3)	> 6.5 N/mm2 at 28 days
Water absorption	< 2%

Design criteria:

Dimensional Stability Technology is a major step forward in the general compatibility of repair mortarsystems with the host concrete, and the control of shrinkage in particular. Attention to the basic designcriteria 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

Instructions 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 100PT prepare paste to patches and let it to set and then cure as recommended.

Product 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

Coverage:

Approx.19.5 kg/m² per 10 mm thickness.

Packaging:

MICROCONE 100PT is supplied in 25kg bags.




Storage & Shelf-life:

MICROCONE 100PT 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 bereduced to as little as 4 months.

Health & Safety:

MICROCONE 100PT contains cement powders which, during normal use, have no harmful effect on dry skin. However, when MICROCONE 100PT is mixed, or becomes damp, alkali is released which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Suitable gloves, eye protection and dust masks shall be worn. The use of barrier creams is recommended. Incase of contact with skin, it shall be washed with clean water. Incase of contact with eyes, it shall be rinsed immediately with plenty of clean water. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced. MICROCONE 100PT is non-flammable.

	It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.
	ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.
	ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.
	ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance

	This symbol is used to identify Redwop products which give off a low level of volatile organic compounds(VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.
	Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.
	ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.

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