

PS Microconcrete 60

High performance ready to use non-shrink, cementitious microconcrete



Product Description

High performance ready to use PS Microconcrete 60 is factory designed pourable, shrinkage compensated, high performance microconcrete with selected cement, aggregate and other chemicals. Recommended water and coarse aggregate to be added at site as per requirement.

Uses

PS Microconcrete 60 is suitable for producing high performance micro-concrete for deep repairs to all concrete structures such as:

- Buildings
- Wharfs and jetties
- Dams and reservoirs
- Car parks and basements
- Power Plants, Industrial Plants
- Highway bridges and culverts
- Sewerage and water treatment structures
- Structural strengthening of structure by section enlargement
- Column and beam jacketing, etc

Characteristics / Advantages

- No vibration needed
- Easily pumpable
- Easy to mix and apply
- Excellent flow characteristics
- Rapid strength development
- High ultimate strengths
- Impact resistant
- Non-corrosive
- Non-toxic
- Iron and chloride free
- Dense and non-shrink concrete created by dual stage expansion
- Good bonding with existing concrete
- Adjustable consistency by controlling the water within the recommended limit

Product Information

Chemical base

Portland cement, selected fillers and aggregates, special additives

Packaging

30 kg bags

Shelf life

6 months from date of production

Storage Conditions

The product must be stored properly in undamaged and unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C. Protect from moisture, direct sunlight and frost.

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Mechanical / Physical Properties

Compressive Strength	Curing Time	Compressive Strength (Mpa)
	1 day	> 20
	3 days	> 30
	7 days	> 40
	28 days	> 60
Flexural Strength	Curing Time	Flexural Strength (Mpa)
	7 days	> 6.0
	28 days	> 8.0
Shrinkage	No shrinkage after initial setting	

Application Details

Mixing ratio	Water : Powder = 0.14 to 0.16 (by weight) 4.2 L to 4.8 L water per 30 kg bag, dependent on the desired flow
Fresh mortar density	(2.15 ± 0.15) kg/L (water : powder = 0.15)
Layer Thickness	Minimum layer thickness shall be 25mm. For thickness above 50mm and upto 150mm addition of 10mm down clean aggregates is recommended in proportion of 100% to 150% by weight of Microconcrete.
Pot life	~20 minutes (water : powder = 0.15, +30 °C)

Application Instructions

Mixing	<ul style="list-style-type: none">Microconcrete can be mixed both in paddle type and slow speed grouting mixture or drum type concrete mixer.Microconcrete is to be added to water and mix till a pourable consistency is obtained with recommended water - powder ratio as per technical data.Do not mix more Microconcrete that can be used within 15 minutes. DO NOT ADD ANY EXTRA WATER. For field mixing technical department may be consulted
Application Method/ Tools	Pour the Microconcrete after mixing into the area to be covered/ filled during if required, ensure proper air displacement
Cleaning of Tools	Clean all tools and application equipment with water immediately after use Hardened/ cured material can only be removed mechanically.

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Notes on Application / Limitations

When ready to pour Micro Concrete is workable for 20 minutes after mixing at +30°C)

Value Base

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health & Safety Information

For Information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information and in particular the recommendations relating to the application and end use of products are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with recommendations. In practice the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information or from any written recommendations or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose reserves the right to change the properties of its products. The Proprietary rights of third Parties must be observed. All orders are accepted subject to our current terms of sale and delivery.

Users must always refer to the most recent issue of the local product Data sheet for the product concerned copies of which will be supplied on request.

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