

D+ 333 MICROCONCRETE



DESCRIPTION

D+ Microconcrete is supplied as a ready to use blend of dry powder, which requires only the site addition of clean water to produce a free-flowing, non-shrink micro concrete. The material is based on Portland cements, and fillers, and additives which impart controlled expansion characteristics in the plastic state, while minimizing water demand. The low water requirement ensures high early strength and long-term durability.

Features

- Low-shrinking characteristic
- Can be pumped or poured into restricted locations.
- Highly fluid to allow for placement without vibration.
- Pre-packed to overcome site-batched variations.
- Low permeability- makes it suitable for use in bathrooms, kitchens, and the outdoors.
- Economical & Nearly immediately after application strong
- Contains no chloride - makes it a safe and long-lasting surface alternative.
- Ease of use & Necessary hardening/setting quality
- Good Workability
- A strong connection to the substrate
- Compatible substrate strength and mechanical characteristics
- Little to no cure is necessary.

Uses

- For repairs to damaged reinforced concrete elements particularly where access is restricted and where vibration of the placed material is difficult or impossible
- Suitable for various structural strengthening measures such as filling honeycombs and cracks

Technical Information

Appearance / Colour	Grey Powder
Wet density	2100 to 2150 Kg/m ³
Packaging	40 kg bags
Shelf Life	06 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10 °C and +30 °C
Compressive strength @ 1 day	>10 N/mm ²
Compressive strength @ 7 day	>35N/mm ²
Compressive strength @ 28 day	>40N/mm ²

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Method of application

1. SURFACE PREPARATION:

Defective concrete surfaces must be cut back to a sound base than smooth surfaces should be mechanically roughened.

Corroded reinforcing steel should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits. It is important to clean the steel to a bright condition. Grit-blasting is recommended.

Immediately prior to placing, any free water should be removed.

2. MIXING

Care should be taken to ensure that D+ Microconcrete 333 is thoroughly mixed in a forced-action mixer of adequate capacity. The quantity water required will generally be between 5.2 to 5.40 Ltr. per 40 kg bag of D+ Microconcrete 333.

Slurry tight form work that should not deform or leak when subjected to hydraulic pressure imposed by the micro concrete will be fabricated and erected where the material is gravity fed.

3. APPLICATION

The mixed material should be placed immediately. If placed by pump, standard concrete pumping practice should be followed. The pump and pipeline must be primed with cement slurry. Pumping should be commenced immediately after priming. If poured in the form work, avoid air entrapment by pouring from one side only.

Low temperature working

In cold conditions below to 15°C, the use of warm water (up to 30°C) is advisable to accelerate strength development. Normal precautions for working with cementitious materials in winter should be adopted.

High temperature working

At ambient temperature above 35°C the material should be stored in the shade and cold water used for mixing.

Curing

As D+ Microconcrete is a cement-based repair material, it must be cured immediately after stripping the formwork in accordance with good concrete practice.

Health and Safety Precautions

- Use safety goggles, nose mask and hand gloves during application.
- Clean hands with soap water after application.
- Ensure adequate ventilation and avoid inhalation of dust
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water and seek medical advice.

CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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