TECHNICAL DATA SHEET

TEKNOCEM LA



High Strength Micro-Concrete

PREMCRETE

TEKNOCEM LA



DESCRIPTION

TEKNOCEM LA is a low-alkali, highly fluid micro-concrete formulated with non-ASR reactive aggregates to produce a high-quality fluid repair concrete.

When mixed with clean water, it produces a non-shrink, volume-stable repair concrete that does not segregate or bleed.

TEKNOCEM LA is self-compacting and suitable for applications from 20 mm to 200 mm thick.

USES

Suitable for large concrete repairs, bridge abutments, soffits, columns, structural elements and thick-section grouting.

ADVANTAGES

- Highly fluid and self-compacting, requiring no vibration.
- Non-shrink and volume stable, without segregation or bleeding.
- Easily poured or pumped into areas with restricted access.
- Suitable for repair thicknesses of 20–200 mm.
- Excellent resistance to carbon dioxide and chloride ions.

TEKNOCEM LA

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Compressive Strength @ 20°C	EN12190	20 MPa @ 1 Day 30 MPa @ 3 Days 50 MPa @ 7 Days 60 MPa @ 28 Days
Flexural Strength	EN1015-11	3 MPa @ 1 Day 7 MPa @ 7 Days 9 MPa @ 28 Days
Adhesion Bond	EN1542	2.1MPa @ 28 Days
Density	EN12390-7	2300 kg/m^3
Electrical Resistivity	N/A	11,000 Ω.cm
Coefficient of Thermal Expansion	N/A	12 x 10^{-6} / ^{0}C
Air Content	EN12350-7	4%
Chloride Content	EN1015-17	<0.003%
Flow Ability	EN13395-2	700mm in 10 seconds
Reation to Fire	N/A	Class A1
Elastic Modulus	EN13412	22GPa
Carbonation	EN13295	Complies
Pot Life	N/A	>45 mins (temperature dependent)

INSTALLATION PROCEDURE

Surface Preparation
Remove defective concrete and all loose friable material. Ensure the substrate is sound, clean and free from contaminants. Construct watertight formwork where required.

Substrate Priming
Pre-soak the substrate and bring to a saturated surface-dry (SSD) condition before placement.

Mixing
Mix with 3 litres of clean water per 25kg bag. Add powder slowly to water while mixing with a slow-speed paddle mixer until uniform.

Application
Place as a continuous pour from one side of the formwork only. Use a tremie pipe where appropriate and raise gradually as placement progresses.

Curing
Cure exposed surfaces immediately using a suitable curing compound and protect from rapid drying.

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PACKAGING & COVERAGE

Pack Size

25kg.

Yield

Approximately 13 litres per 25 kg pack.



STORAGE & SHELF LIFE

Store in unopened bags in dry conditions above 8°C.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

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