

NON-SHRINK STRUCTURAL GROUT

DATA SHEET

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Ecocem Non-shrink Grout is a very flowable cementitious located, high substance, non-recoil and non-silvery mix design for souped up grouting requests where ease of installation and rightness for use under extreme load and where quivering fighting are main.

CHEMICAL BASE

- Specially selected cementitious blends
- Non-shrink additives
- Water reducing additives
- Graded siliceous aggregates
- And other chemical reagents which enhance the total performance of the grout

CHARACTERISTICS / ADVANTAGES

- Easy to use (just add clean water)
- Non-corrosive (will not attack reinforcement)
- Non-metallic
- Non-bleeding
- Excellent adhesion
- Excellent high early and initial strengths
- Very good flow characteristics
- Non-shrinking
- Adjustable consistency (controlled by the amount of water added)

TYPICAL USES

- Grouting: anchor bolts & starter bars
- Bedding: machine bases, column base plates, crane rails
- Concrete Repairs: grouting cavities and voids in concrete



EASY TO USE (JUST ADD
CLEAN WATER)
NON-CORROSIVE
NON-METALLIC &
NON-BLEEDING
EXCELLENT ADHESION
HIGH EARLY AND INITIAL
STRENGTHS
GOOD FLOW CHARACTERISTICS

SURFACE PREPARATION

Actual surface must be structurally sound, eliminate all unconstrained factual. Surfaces must be innocent lubricate, greases, dust, rust, paint laitance and some different contaminants.

PRIMING / STRUCTURAL BONDING

No primer required.

For structural bonds use **Ecocem Eco-Epoxy 100** that meets or exceeds ASTM C 881/C 881M -02, Type I to V, Grade 2, Class E for application, viscosity and temperature of application.

MIXING

A mechanical mixer is recommended, but the conventional wheelbarrow and spade is also suitable. Add of the required water into the mixer then slowly add the Ecocem Non-shrink Grout whilst mixing, then add the remainder of the water into the mixer until the desired consistency is achieved and free from lumps.

- Highly Flowable consistency add up to – 4.5lt water
- Flowable consistency add up to – 4.0lt water
- Plastic consistency add less than - 3.5lt water

PLACING / APPLICATION

Concrete surface must be saturated first with water (ensure there is no free-standing water)

Mixed Ecocem Non-shrink Grout should be poured immediately after mixing into the cavity from one point to avoid entrapping air. The Non-Shrink Grout should be applied within 10 minutes of mixing.

APPLICATION PROPERTIES

- Minimum grout depth = 10mm
- Maximum grout depth = 150mm

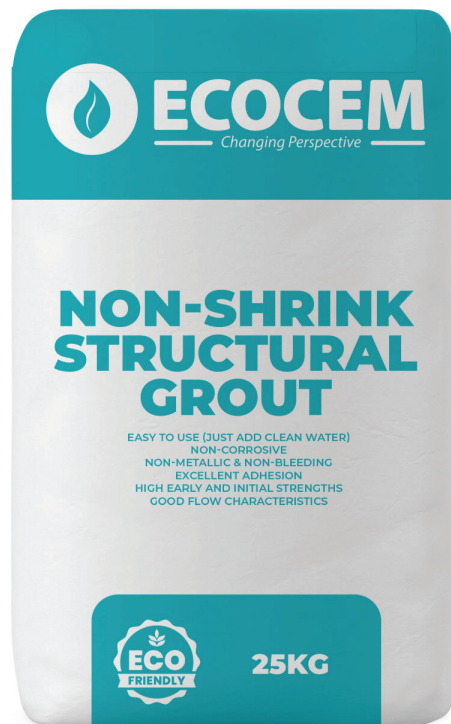
CURING

Grout areas should be covered immediately after placement.

Alternatively apply Ecocem curing compounds.

PRODUCT DATA

Appearance	Powder
Colour	Grey
Packaging	25kg plastic lined polypropylene bags
Coverage	1 bag of Non-shrink Grout mixed with 3.5lt of water will yield 12.5lt of mortar
Shelf Life	12 months in original unopened bags, when store in the correct storage conditions.
Storage Conditions	Store in a dry cool area, temperature between 5 -25°C



MECHANICAL / PHYSICAL PROPERTIES

Type of Grout Mix	Flowable
Mix Ratio	3.5 – 4.5lt
Ambient temperature at mixing	25°C
Yield	12.5lt to 13.5lt
Compressive Strengths	20
1 day	≥45
7 days	
28 days	≥60
SANS 50196 - 1	
Tensile Adhesion Strength	0.84 N/mm ²
28 days	
Flexural Strength	9.5 N/mm ²
28 days	

SET TIMES

Initial Set	≥60 min
Final Set	≤400 min
SANS 50196 - 3	
Flow Consistency	meets CRD-C 226-80 Specification
Shrinkage EN 12808-4: 2009 [mm/m]	
28 days Standard Conditions	0.5

LIMITATIONS

- Do not mix more than 4.5lt of water with Non-shrink Grout.
- Mix only the require amount which can be placed within 10 minutes.
- Discard mixed Non-shrink Grout not used within 30 minutes. DO NOT REMIX WITH ADDITIONAL WATER.
- Do not apply if temperature is below 5°C
- Ecocem Non-shrink Grout can be used as a concrete repair floor system, in 1m x 1m sections (No greater)
- Cut & break out 1m x 1m sections, minimum depth of 10mm and maximum depth of 150mm.
- Priming, application & curing, refer to method statement above.
- Non-shrink Grout CANNOT BE USED AS A CONCRETE FLOOR OVERLAY OR UNDERLAY.

HEALTH AND SAFETY INFORMATION

Keep out of reach of children. Do not breathe dust. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/ protective clothing/ eye protection. Wash face, hands and any exposed skin thoroughly after handling. For further health and safety information refer to the product SDS.