



CL – NON SHRINK GROUT S190

GENERAL-PURPOSE NON SHRINK CEMENTITIOUS GROUT

DESCRIPTION

CL – NON SHRINK GROUT S190 is a ready to use, dry-mixed non-ferrous cementitious grout, consists of graded Portland cement, silica aggregate, expansion agent and special chemical additives. The low water demand characteristic produces a high strength non-shrink grout of plastic or flowable consistency.

FIXES

* Can be use as grouting for: -

- Machine foundations
- Columns in pre-cast construction
- Anchor bolts
- Bearing plates
- Cavities
- Gaps

* For repairs to concrete structure

FEATURES

- Non-shrink
- Iron free, non-rusty
- Chloride free
- Rapid strength development
- Adjustable consistency
- Impact and vibration resistant
- Extended working time

CERTIFICATIONS

- Sirim Malaysia

TECHNICAL INFORMATION

Compressive Strength at various consistency @ 28 day:

- Stiff : > 55 N/mm²
- Trowelable : > 50 N/mm²
- Flowable : > 45 N/mm²

Initial Setting Time : 3 – 6 hours

Final Setting Time : 6 – 8 hours

Expansion / Shrinkage : + 0.5%

COVERAGE / YIELD

Coverage / yield of grout will vary in accordance to the consistency:

Consistency	Water/ litre	Yield per 25kg bag/ m ³
Stiff	3.25 ± 0.1	0.0123
Trowelable	3.75 ± 0.1	0.0127
Flowable	4.50 ± 0.1	0.0136

SURFACE PREPARATION

Concrete surface should be sound, clean and free from oil, grease, laitance and loose contaminants. Metal surfaces should be free from rust, oil and grease. Absorbent surfaces should be damped with clean water or primed with CL-Primer P1 prior to application of CL-Non Shrink Grout S190.

MIXING

According to the grout consistency required, the recommended amount of water to be added per 25kg of CL-Non Shrink Grout S190 are as below: -

Stiff consistency : 3.25 ± 0.1 litre

Trowelable consistency : 3.75 ± 0.1 litre

Flowable consistency : 4.50 ± 0.1 litre

Place the desired clean water in accordance to the water ratio guide into a suitable bucket. Gradually add in CL-Non Shrink Grout S190 into it while mixing until a uniform consistency is achieved. Use mechanical stirrer for better mixing, hand mixing rarely achieve the desired result. Let it slake for about 5 minutes, then re-mix before apply. Do not add extra water or other ingredients.

APPLICATION

After mixing, it should be applied within 30 minutes. After 30 minutes, discard any grout mix that shows sign of stiffening. For flowable consistency, place the grout mix into the formwork from one side only in order to avoid the creation of voids entrapment or air or surplus water. For large volume of thickness more than 75mm, it is necessary to fill the grout mix with graded 10mm aggregates. The quantity of aggregate added should not exceed 1 part aggregate to 1 part of CL-Non Shrink Grout S190 by weight.

CURING

After the initial hardening of grout, treat the exposed surface with concrete curing agent or cured by means of water application.

SHELF LIFE

12 months in unopened bag, stored in cool and dry place.

PACKING

Available in 25 kg bag.

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Disclaimer: Specification are subject to change without notification.

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