

REC GROUT 749

Exceptional high strength shrinkage compensated grout

PRODUCT

Rec Grout 749 is a blend of portland cement, special admixtures and proprietary aggregates designed to provide high flexural and compressive strength performance ranging from plastic to fluid consistencies. Rec Grout 749 is non-metallic, non-shrink, non-gas forming and free from chlorides or aluminium powder. It is a high performing, multi use, general purpose, precision, construction grout.

SCOPE OF USE

- Assembly of pre-cast parts made of reinforced Or pre-stressed concrete
- Grouting of anchors and dowels
- Jointing
- Keying bridges
- Fixing industrial equipment and heavy machinery mounting plates
- Vertical shoring
- Void filling operations
- Grouting of anchors and dowels

ADVANTAGES

- Non-shrinking
- High strength
- Easy to apply
- Resistant to sea water and sulfates.
- Fluid or plastic consistency

CHARACTERISTICS

| | |
|--|----------------------------------|
| Appearance | Grey powder |
| Grain size | 0 to 4.75mm |
| Free from chlorides and metallic particles | |
| Fresh density (BS 1881:83) | 2.3 - 2.4 |
| Length change | 0.062 % @ 28 days (ASTM C157-03) |

COMPRESSIVE STRENGTH (N/MM²) - ASTM C 109

| AGE | 3 Days | 7 days | 28 days |
|-------------------|--------|--------|----------|
| FLUID CONSISTENCY | 50 | 70 | above 80 |

FLEXURAL STRENGTH AT 28 DAYS FOR FLUID CONSISTENCY

| AGE | 28 days |
|--|---------|
| FLEXURAL STRENGTH (N/mm ²) - BS EN 196-1 | >9 |

*The higher the curing temperature, the higher will be the strength at 24 hours.*Results obtained using mortar at fluid consistency under lab conditions at 25°C ± 2:12% mixing water or 3Kg for 25 Kg.

*Properties listed above are only based on controlled laboratory samples and tests: Results may differ based upon statistical variations depending on mixing methods, equipment, temperature, application methods, test methods actual site conditions and curing conditions.



REC GROUT 749

APPLICABLE STANDARDS

ASTM C 109

INSTRUCTIONS FOR USE

MORTAR PREPARATION

Add the powder to the water and mix for 3 minutes. To ensure a homogeneous and uniform mix, an electric mixer with high rotation speed must be used for fluid and flowable consistencies.

| Mixing | | | |
|-------------------|---------------------|----------------------|--------------------|
| | webertec 306 EHS | WATER (1) | VOLUME IN PLACE |
| Fluid consistency | 25kg | 2.75 to 3.25 lit. | 12 lit. |

The mortar is obtained by mixing Rec Grout 749 with clean water. The amount of water used depends on the workability required.

FOR GROUTING & CONCRETE REPAIR

Rec Grout 749 can be used for thicknesses up to 8 cm. Apply the mortar evenly on the concrete surface where required. Ideal application temperature is between +5°C and +35°C. If the application temperature is higher than 35 °C, make sure to use cool water to keep the mixed grout temperature below 30°C.

CURING

Protect the work against rapid drying from wind, sun and excessive heat by using a curing compound like Rec Cure E-4 or by covering with properly sealed plastic sheeting.

STORAGE

12 months after manufacturing date in original and non-open packaging, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

PRECAUTIONS

Substrate must be sound and resistant. It should be saturated with water a few hours prior to installation. Remove all water used in wetting support prior to installation of Rec Grout 749. Do not mix with other hydraulic binders.

SAFETY PRECAUTIONS

The product contains cement powders which, when mixed with water, release alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's office in your location.

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