

REC GROUT 741

Highly fluid expansive bedding grout

PRODUCT

Rec Grout 741 is a ready- to-use grout made of sand, special cement and additives which provides unique characteristics.

SCOPE OF USE

- Grouting industrial equipment and heavy machinery mountin plates
- Bedding industrial equipment, construction posts, bars
- Anchoring a wide range of fixings
- Assembly of pre-cast parts made of reinforced or pre-stressed concrete,vertical shoring
- Filling of shutter tie rod openings
- Concrete jacketing for slabs, columns, beams and footings
- Vertical shoring
- Reblocking/ restumping / void filling applications
- Closing or filling around pipes in water tanks/ swimming pools
- Pumpability properties
- High early mechanical resistance
- Good resistance to sea water & sulfated water
- Easy application
- Excellent resistant to vibration and shock loads

ADVANTAGES

- Expansive
- Highly fluid

CHARACTERISTICS

Appearance	Grey powder
Grain size	0 to 3mm
Passing at 0.08mm	48%
Powder density	1.45
Expansion (ASTM C 940)	up to 3 %

Chloride permeability (ASTM C 1202)	Low
Water absorption (BS 1881 P 122)	< 2%
Free from chlorides and metallic particles	
Fresh density ASTM C 185 - 02 section 5.2	2.33
VOC and formaldehyde content ISO/FDIS 11890-2/GC-MS	None (<10µg/l)

*COMPRESSIVE STRENGTH

AGE	1 day	7 days	28 days
COMPRESSIVE STRENGTH (N/mm ²)	20	40	>60
Fluid consistency ⁽¹⁾	EN 12190	EN 12190	EN 12190

*FLEXURAL STRENGTH at 28 days

AGE	28 days
FLEXURAL STRENGTH (N/mm ²)	>6
STANDARD	EN 196-1

⁽¹⁾Results obtained at 10% water ratio under lab conditions at 22°C ± 1

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

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APPLICABLE STANDARDS

BS 6920: Part 1: 2001
BS 1881: Part 122
EN 196-1
EN 12190
ASTM C 1107
ASTM C 1202
ASTM C 940: 89
ASTM C 185-02 section 5.2

INSTRUCTIONS FOR USE

PRODUCT PREPARATION

The slurry or grout is obtained by mixing **Rec Grout 741** with water. The amount of water used varies according to the workability required. Add the powder to the water and mix for 3 minutes.

To ensure a homogeneous and uniform mix, an electric mixer must be used.

At the proper volumes, **Rec Grout 741** may be used as a micro-concrete by mixing it with clean and water-saturated 3/8 aggregate to a plastic consistency. Do not mix with other hydraulic binders. The use of additives is absolutely prohibited. 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.

BEDDING

Thoroughly scab the foundation, clean the area between the foundation and machine base-plate, as well as the anchor holes. Build a solid leak-proof formwork. Saturate the concrete foundation with water for at least few hours prior to pouring.

Remove all residual water.

Pour **Rec Grout 741** continuously, in one direction to avoid air pockets (by gravity, loading, pumping, injection).

The choice of installation method depends on the grouting thickness and the length of the machine.

The grouting thickness must be between 3 and 6 cm for a pure mortar.

Larger thickness may be filled by a micro-concrete with the addition of 3/8 aggregate. Once the mortar starts to set, apply on its surface:

- a curing compound
- or, if the configuration and the tightness of the forms allow it, pour 1 to 2 cm of cool water over the surface and leave it there until removal of forms.

For Grouting /Jacketing/Repair:

Rec Grout 741 can be used for thickness up to 10 cm. Existent surface needs to be roughened and cleaned. Ensure dampening the surface with water before the application.

Thickness above 10 cm can be practiced in case of epoxy anchoring dowels (rebars) installation in the existent structure by (pouring) the pure epoxy (weber.anc 405 BFX) into drilled holes in the existent structure, then steel mesh to be connected to Dowels (rebars).

Ideal application temperature is between +5 °C and 35 °C.

For Shoring/Soil Nailing Applications:

Rec Grout 741 Can be used for grouting the inclined **Rec Grout 741** Can be used for grouting the inclined holes in shoring applications.

Hole diameter must not exceed 20 cm, depth of hole will be determined by structure engineer.

Rec Grout 741 is high fluid and non-shrink properties ensure excellent anchoring / friction with soil / rocks.

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 secured plastic sheeting.

DOSAGE

	webertec 302 HF	3/8 AGGREGATES	WATER (Lit)	VOLUME INSTALLED
MORTAR	1 BAG	0 Lit.	3 to 4	25 Lit
GROUT	OF	0 Lit.	4 to 5	25 Lit
MICRO	50 KG	20 Lit.	5	36 Lit
CONCRETE				

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.

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.



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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.

NOTE

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