

# REC GROUT 733

## Non shrink structural grout

### PRODUCT

Rec Grout 733 is a ready- to-use grout made of selected aggregates, special cement and additives. It can be used where high compressive strength is required. Rec Grout 733 is specially formulated to produce a shrinkage compensating grout with excellent adhesion.

### SCOPE OF USE

- Filling of shutter tie rod hole openings
- Bridge bearing application
- Concrete jacketing for slabs, columns, beams and footings
- Reblocking/Restumping/Void filling Applications
- Closing or Filling around pipes in water tanks/swimming pools.
- Pile head repair.

### ADVANTAGES

- Non-shrinking
- High strength
- Easy to apply
- Resistant to sea water and sulfates
- Liquid or plastic consistency
- Excellent shock & vibration resistance
- Pumpability properties

CHARACTERISTICS	
Appearance	Grey powder
Grain size	0 to 4.75mm
Individual VOC: < Limit	Pass
TVOC: <0.01 mg/m <sup>3</sup> (test done as per california specification 01350 )	Pass
Free from chlorides and metallic particles	

### APPLICABLE STANDARDS

BS 6920 Part 2.6: 2000  
BS 1881: Part 122  
BS 6319: PART 3: 1983  
BS 6319: PART 7: 1985  
ASTM C 1202  
BS EN 12190  
ASTM C348  
ASTM C 1107

COMPRESSIVE STRENGTH	
AGE	28 days
COMPRESSIVE STRENGTH (N/mm <sup>2</sup> ) – BS EN 12190 at 22°C±1 Fluid consistency (1)	50
Plastic consistency	60

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<b>*FLEXURAL STRENGTH</b>	
<b>AGE</b>	<b>28 days</b>
FLEXURAL STRENGTH (N/mm <sup>2</sup> ) - BS EN 196-1 at 22°C±1 Fluid consistency (1)	7
Plastic consistency	8

\*The higher the curing temperature, the higher will be the strength at 24 hours. (1) results obtained with 3.25 liters water / 25kg bag. \*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. The mechanical characteristics will be higher if the Rec Grout 733 is mixed at plastic consistency. In this case, the compressive strength can exceed 80N/mm<sup>2</sup> at 28 days.

## INSTRUCTIONS FOR USE

### SUBSTRATE PREPARATION

Rec Grout 733 may be applied on sound concrete, masonry, rock or similar materials. Remove damaged concrete and laitance by chipping with a pick or cold-chiselling to get a rough surface. The surface must also be free from any trace of grease or oil. Saturate the surface with water by copiously spraying just before application, and if possible, 6 hours before application as well.

### PRODUCT PREPARATION

The grout is obtained by mixing Rec Grout 733 with clean water. The amount of water used depends on 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. Do not mix with other hydraulic binders. The use of additives is prohibited.

<b>Mixing</b>			
	<b>webertec 301</b>	<b>WATER (1)</b>	<b>VOLUME IN PLACE</b>
<b>Fluid consistency</b>	25kg	3-3.25 lit.	approx. 13 lit.

(1): Double quantity of water is required for 50Kg package

### For Jacketing/Repair:

Rec Grout 733 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. Ideal application temperature is between +5°C and 35°C.

### For Shoring/Soil Nailing Applications:

Rec Grout 733 can be used for grouting the inclined holes in shoring applications. Hole diameter must not exceed 20cm, depth of hole will be determined by structure engineer. Rec Grout 733 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.

### For Pile Head Repair

Rec Grout 733 can be used for a thickness around 30mm.

## 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.

## 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.

## DISCLAIMER

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