

# REC GROUT 746

## Highly fluid non-shrink cementitious grout

### PRODUCT

Rec Grout 746 is a ready- to-use free flow precision grout made of sand, special cement and additives to provide an outstanding performance in terms of volume stability, flow, and physical properties.

### SCOPE OF USE

- Filling of shutter tie rod openings
- Void filling applications
- Concrete re-profiling

### ADVANTAGES

- Highly fluid
- Chloride & Hydrogen free
- High early mechanical resistance
- Good resistance to chlorides and sulfates
- Easy application
- Excellent resistant to vibration and shock loads
- Pumpable

### CHARACTERISTICS

Appearance	Grey powder
Grain size	0 to 1 mm
Wet density (kg/m <sup>3</sup> )	2.15 - 2.25
Mixing water	17% - 18% (4.25-4.5 Lit water per 25 Kg powder)
Initial Setting time (min)	255
Final Setting time (min)	355
Free from chlorides and metallic particles	

### APPLICABLE STANDARDS

BS 6920: Part 1: 2001  
BS EN 196-1  
BS EN 12190  
ASTM C 1107 Type C  
U.S. Corps of Engineers Specifications CRD-C-621  
EN 12190

### \*COMPRESSIVE STRENGTH (N/mm<sup>2</sup>)

AGE	1 day	7 days	28 days
COMPRESSIVE STRENGTH (N/mm <sup>2</sup> )	>25	>45	>60
STANDARD	BS EN 12190	BS EN 12190	BS EN 12190

### \*FLEXURAL STRENGTH (N/mm<sup>2</sup>)

AGE	7 days	28 days
FLEXURAL STRENGTH (N/mm <sup>2</sup> )	8	> 10
STANDARD	BS EN 196-1	

\*Results obtained at fluid consistency under lab conditions at 25°C ± 2: 17% water or 4.25 lit. per 25 kg bag. The mechanical characteristics will be higher if the weber.tec 305 HF is mixed at plastic consistency (less mixing water dosage)

\*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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## INSTRUCTIONS FOR USE

### MORTAR PREPARATION

The slurry or mortar is obtained by mixing **Rec Grout 746** 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.

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.

	webertec 305 HF	WATER (l)	VOLUME IN PLACE
<b>Plastic consistency</b>	25 Kg	3.5 to 3.75 lit.	12.5 lit
<b>Fluid consistency</b>	25 Kg	4.25 to 4.5 lit.	13 lit.

### GROUTING

Build a solid leak-proof formwork. Saturate the concrete substrate with water for at least few hours prior to pouring.

Remove all residual water. Pour **Rec Grout 746** continuously, in one direction to avoid air pockets.

The choice of installation method depends on the grouting thickness and the length of the gap. The grout can be applied up to a 5 cm thickness. Gaps with thickness up to 10 cm can be filled in several layers, depending on geometry and level of steel reinforcement. Once the grout starts to set, it should be cured either by a curing compound or if the configuration and the tightness of the forms allow by pouring 1 to 2 cm of cool water over the surface and maintaining it until the striking of the forms.

### 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.

### YIELD

12.5 to 14 litre per 25 kg bag depending on consistency.

### 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

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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