

## Non shrink structural grout

### PRODUCT

**webertec 301** is a ready-to-use grout made of selected aggregates, special cement and additives. It can be used where high compressive strength is required. **webertec 301** is specially formulated to produce a shrinkage compensating grout with excellent adhesion.

### SCOPE OF USE

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

### 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 mm
Free from chlorides and metallic particles	
pH	12
Chloride permeability (ASTM C 1202)11.5% Water	Low
webertec 301 complies with BS 6920 Part 2.6: 2000	test for compatibility with potable water.
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 <sup>2</sup> ) – BS EN 12190 at 22°C ± 1			
Fluid consistency <sup>(1)</sup>	20	35	50
Plastic consistency	35	50	60

### \*FLEXURAL STRENGTH & TENSILE STRENGTH at 28 days

AGE	28 days
FLEXURAL STRENGTH (N/mm <sup>2</sup> ) – BS EN 196-1 at 22°C ± 1	
Fluid consistency <sup>(1)</sup>	6
Plastic consistency	7
TENSILE STRENGTH (N/mm <sup>2</sup> ) – BS 6319:PART 7: 1985	4

\*The higher the curing temperature, the higher will be the strength at 24 hours. (1) results obtained with 3.5 liters water / 25 kg 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.



### PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
-	25 kg	25 kg	-	25 kg	25 kg	-	-

### 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  
ASTM C 1107  
ASTM C 940

## INSTRUCTIONS FOR USE

### SUBSTRATE PREPARATION

**webertec 301** 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 **webertec 301** 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.

### Mixing

	<b>webertec 301</b>	<b>WATER (l)</b>	<b>VOLUME IN PLACE</b>
<b>Plastic consistency</b>	25 Kg	2.87 lit.	approx.12.5 lit
<b>Fluid consistency</b>	25 Kg	3.5 to 4 lit.	approx.13 lit.

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

### For Jacketing/Repair:

**webertec 301** can be used for thickness up to 10 cm.

Existent surface needs to be roughened and cleaned.

Ensure damping the surface with water before the application  
Ideal application temperature is between +5 °C and 35 °C.

### For Shoring/Soil Nailing Applications:

**webertec 301** 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.

**webertec 301** 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 **weberad cure WH** or **weberad cure Y 40** 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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