webertec 301
(UAE)

Non shrink structural grout



Technical and repair mortars

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

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.
- Pile head repair.

ADVANTAGES

- Non-shrinking.
- High strength.
- Easy to apply.
- Liquid or plastic consistency.
- Excellent shock & vibration resistance.
- Pumpablity properties.

CHARACTERISTICS			
Appearance	Grey powder		
Grain size	0 to 4mm		
Free from chlorides and metallic particles			
pH	12		
VOC and formaldehyde content ISO/FDIS 11890-2/GC-MS	None (<10g/L)		
***COMPRESSIVE STRENGTH**			
AGE	**1 day**	**7 day**	**28 day**
COMPRESSIVE STRENGTH (N/mm²) – BS EN 12190 at 22°C ± 1 Fluid consistency (1)	20	40	60
***FLEXURAL STRENGTH**			
AGE	**28 day**		
FLEXURAL STRENGTH (N/mm²) – BS EN 196-1 at 22°C ± 1 Fluid consistency (1)	6		

**The higher the curing temperature, the higher will be the strength at 24 hours. (1) results obtained with 3.25lit 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 **webertec 301** *is mixed at plastic consistency. In this case, the compressive strength can exceed 80N/mm² at 28 days.*

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

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			
	webertec 301	WATER (1)	VOLUME IN PLACE
Plastic consistency	25kg	2.25 to 2.75lit	approx. 12.5lit
Fluid consistency	25kg	2.75 to 3.25lit	approx. 13lit

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

For Jacketing/Repair:
webertec 301 can be used for thickness up to 10cm.
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 Application:
webertec 301 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.
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.

For Pile Head Repair
webertec 301 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 **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

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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