

Cementitious non shrink precision grout

PRODUCT

webertec 301 PC 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 PC** is specially formulated to produce a shrinkage compensating grout with excellent adhesion.

SCOPE OF USE

- Jointing and gap filling between precast concrete elements
- Bedding and fixing of precast concrete elements
- Bedding under industrial equipment and heavy machinery mounting plates
- Filling of shutter tie rod hole openings
- Bridge bearing applications
- 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 | |
| VOC and formaldehyde content | None (<10µg/l) |
| ISO/FDIS 11890-2/GC-MS | |
| Early expansion (ASTM C 940) | up to 1 % |



PACKAGING

| Leb | Syria | Jordan | UAE | Qatar | Kuwait | KSA | Oman |
|-------|-------|--------|-------|-------|--------|-----|-------|
| 25 kg | 25 kg | 25 kg | 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 940

*COMPRESSIVE STRENGTH

| AGE | 1 day | 7 days | 28 days |
|---|----------|----------|----------|
| COMPRESSIVE STRENGTH (N/mm ²) – BS EN 12190 at 22°C ± 1 Fluid consistency ⁽¹⁾ | > 20 MPa | > 40 MPa | > 60 MPa |

*FLEXURAL STRENGTH & TENSILE STRENGTH at 28 days

| AGE | 1 day | 7 days | 28 days |
|--|---------|---------|---------|
| FLEXURAL STRENGTH (N/mm ²) – BS EN 196-1 at 22°C ± 1 Fluid consistency ⁽¹⁾ | > 3 MPa | > 7 MPa | > 9 MPa |

*The higher the curing temperature, the higher will be the strength at 24 hours. (1) results obtained with 2.25 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. The mechanical characteristics will be higher if the weber.tec 301 PC is mixed at plastic consistency. In this case, the compressive strength can exceed 80 N/mm² at 28 days.

INSTRUCTIONS FOR USE

SUBSTRATE PREPARATION

webertec 301 PC 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. Moisten the surface with water prior to pouring materials. The material should be applied on damp but not wet substrate.

PRODUCT PREPARATION

The grout is obtained by mixing **webertec 301 PC** 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 PC | WATER (l) | VOLUME IN PLACE |
|--------------------------------|----------------------------|------------------|----------------------------|
| Plastic consistency | 25 Kg | 1.5 to 2 L | approx.12.5 lit |
| Fluid consistency | 25 Kg | 2. to 2.5 L | approx.13 lit. |

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

PRODUCT APPLICATION

Clean the concrete substrate or the area between the forms. Pour **webertec 301 PC** continuously, in one direction to avoid air pockets. The maximum grouting thickness per layer is 6 cm. For bedding of precast panels, build a solid leak-proof formwork, saturate the concrete substrate with water for at least few hours prior to pouring and remove all residual water.

For bedding under baseplate, 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 **webertec 301 PC** 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 maximum grouting thickness in 1 layer must be 6 cm.

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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