



Advantages

Super-fluid
Quickly reaches high levels of strength
Excellent adherence to reinforcements and concrete

Super-fluid, pourable, non-shrink mortar for the structural repair of concrete and for grouting

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APPLICATIONS

For the horizontal structural repair of concrete. Poured in maximum thicknesses of up to 5 cm.

For jobs requiring thicknesses exceeding 5 cm, washed aggregate must be added that is free from impurities, has a diameter of 5 to 10 mm, and constitutes 25% of the total weight of the dry mixture.

After the aggregate is added, performance must be rechecked with test mixtures at the worksite.

Precision anchorage and grouting of metal structures and prefabricated elements on floors. Anchoring of machine foundations, with rapid attainment of high levels of strength.

Substrates:

- Concrete and reinforced concrete
- Floors made of concrete and reinforced concrete

Do not apply on:

- Surfaces with poor mechanical strength
- Surfaces other than those indicated

PACKAGE INFORMATION

Packaging:

25 Kg bag

Appearance:

Grey powder

Shelf life:

- Validity of performance specifications: 12 months, if kept in a dry place in the original sealed package
- Product compliant with Regulations 1907/2006 (REACH), Annex XVII, paragraph 47 and 1272/2008 (CLP), Annex II, paragraph 2.3, as indicated on the package.

Yield per package:

12.5 l of volume to be filled

AMOUNT REQUIRED

Product

webertec CLSfluido

Amount required

2 kg

Thickness

per liter of volume to be filled.

APPLICATION SPECIFICATIONS

Mixing water: 11 to 13%
Setting time (at 20°C): 3 hours
Wait time before removal of formwork (at 20°C): 48 to 72 hours
Working time: 30 minutes
Minimum thickness: 1 cm

These times calculated for 22°C and R.H. of 50% should be increased for low temperatures and higher R.H. values, and reduced for higher temperatures

TOOLS

- Drill with mixer
- Mechanical mixer
- Continuous rendering sprayer, after lubricating the hose with water-based and cement mortar
- Trowel

SUBSTRATE PREPARATION

The surfaces where weber.tec CLSfluido will be applied must be uniform, solid, rough and completely free from traces of oil, dust and grease. Use mechanical means to remove any unevenness, weakened or deteriorated parts, or any parts that are not perfectly adherent. Remove at least 20 mm of the concrete surrounding rusty reinforcement bars. Brush, sand or use other equivalent methods to remove all rust from reinforcement bars until they are perfectly clean. It is essential to use suitable formworks to contain the liquid mortar. Apply a light uniform coat of remover. The formworks must be securely fastened to resist the pressure of the liquid concrete during pouring.

Wet the surface to saturation, fill the formworks with clean water, empty after 2 hours and remove excess water. To perform grouting, wet with clean water - to the point of saturation and for at least 12 hours - all areas to be grouted, then remove all unabsorbed water.

APPLICATION

- Mix weber.tec CLSfluido with water only (about 2.75 to 3.25 liters per 25 kg bag) using a low-speed drill for at least 5 minutes. Let stand 5 minutes and stir again to obtain a smooth, lump-free mixture, adding the powder gradually to the water.
- Use within 30 minutes after mixing. Mix again from time to time to prevent separation. Pour into the prepared casing. To prevent bubbles from forming, be sure not to incorporate air into the mixture.
- Apply wet canvas or plastic sheets for at least 7 days to protect exposed surfaces from rapid drying and prevent surface cracks from forming during shrinkage. Do not remove the formworks before 48-72 hours at 20°C and in any case not until the product can support the loads to which it will be subjected.

PRECAUTIONS AND RECOMMENDATIONS

- Working temperature +5°C to +35°C
- Strength is greatly reduced at temperatures below 5°C
- Do not apply on surfaces that are frozen or in the process of freezing or thawing, or where there is a risk of freezing in the next 24 hours
- Mix only full bags. Do not mix opened or damaged bags
- Do not exceed the recommended quantity of water in the mixture
- Avoid the formation of air bubbles during mixing and installation
- Prevent exposed areas from drying too quickly (surface cracking may occur due to shrinkage) by applying wet canvas or plastic sheets
- Do not add water while product is setting
- Do not use as a self-leveling material (in small thicknesses)

TECHNICAL DATA

Maximum granulometry: 3 mm
Weight per volume of mixture: 2.3 kg/l
Resistance to compression:
- at 24 h (MPa) 40 N/mm²
- at 7 days 60 N/mm²
- at 28 days > 70 N/mm²
Bending strength after 28 days: 10 N/mm²
Modulus of elasticity: 40,000 N/mm²
Adhesion: ≥ 2.0 N/mm²
Free expansion in plastic stage (UNI 8996): +1.5%
Consistency (UNI 8993 - UNI 8994) superfluid:
Reaction to fire (EN 13501-1:2002): Class A1
Adherence to steel after 28 days: >20 N/mm²

**These values were obtained in laboratory tests under controlled conditions and may be substantially influenced by conditions in the application area.*

COMPLIANCE

MATERIAL SPECIFICATIONS

Precision anchoring of machinery. Grouting of metal structures and prefabricated elements on concrete floors. Repair and strengthening of damaged reinforced concrete or masonry structures with weber.tec CLSfluido by Weber - an extra-strong, super-fluid cement mortar (UNI 8993 - UNI 8994) to be mixed

only with water and offering compression resistance of 60 N/mm² after 7 days and 70 N/mm² after 28 days with 1.5% expansion (UNI 8996). The mortar can be applied in the fluid state by pouring or pumping it into formwork sealed against liquids.