

QIS REPFIX 500 S

STRUCTURAL, THICK REPAIR MORTAR



DESCRIPTION

QIS REPFIX 500S is a ready-to-use, R4 class, cement based, impermeable, non-shrink, chlorine-free, fiber reinforced, thixotropic-toward consistency, sulfate resistant, polymer modified, high-performance structural repair mortar.

USAGE AREAS

- In all reinforced concrete, reinforced concrete and precast structures that require structural repair and restoration,
- In balcony repair, column edges, floor surface repairs,
- Filling of tie rod holes,
- For the repair of gross concrete surfaces.

CHARACTERISTICS

- High adherence to concrete and steel.
- Freeze-thaw resistant.
- Resistance to chemicals.
- Resistance to sulphate, chlorine effects.
- It does not shrink. (non-shrink)
- The material can also be applied by spraying.
- It does not contain chlorine.
- It is fiber reinforced.
- It provides impermeability.
- It is resistant to high pressure.

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APPLICATION METHOD

Surface Preparation

- All loose parts on the application surface should be broken and cleaned and the surface should be roughened.
- The surface edges should be broken vertically and the depth should be at least 0.2 cm.
- The rust in the reinforcement should be cleaned, if necessary, new reinforcement should be added.
- If there is water leakage on the surface, water leakage and leaks should be prevented with QIS PLUG suddenly hardening plug.
- The surface should be completely free of adhesive substances such as oil and paint.
- Before application, the surface should be moistened; it is saturated with water in extremely hot and windy weather.

Mixing

- 25 kg of powder material is added to 4.5 kg of water depending on the ambient temperature. (water ratio 18%)
- The required amount of water is placed in a clean bucket. The necessary powder product is added on it and it is mixed with a mixer until a homogeneous and lump-free mortar is obtained.
- After the material is rested for 1-2 minutes, it is started to be applied by mixing for 1 minute.

Application

- QIS REPFIX 500 S mortar is applied by trowel or spray.
- It can be applied in a single layer up to 50 mm thickness.
- For applications over 50 mm, it can be applied 2-3 times using reinforcement.
- Additional coat applications should be performed after 24 hours.
- The final leveling and finishing is done at the beginning of the mortar setting with a wooden or plastic trowel.

Application Conditions

- In high temperature environments; store the bag in the shade, use cold mix water, apply quickly and continuously in the morning and evening.
- In low-temperature environments; store the bag indoors, use hot mix water, start applying it towards noon and make sure that the structure is not affected by frost.
- Surface applied in extremely dry, windy and direct sunlight exposed environments should be protected for 24-48 hours.

CONSUMPTION

~20,5kg / m² 1cm

PACKAGING AND STORAGE

25 kg Kraft Bag

In its original packaging, when stored in ventilated, dry and protected environments at +5°C/+25°C, protected from sun, rain and frost, its shelf life is 1 year from the date of manufacture.

SAFETY PRECAUTIONS

Gloves, protective clothing, masks/goggles should be used during mixing and application, and contact of the product with eyes, mouth and skin should be prevented. In case of contact with skin, it should be washed with plenty of water, and in case of contact with eyes and swallowing, a doctor should be consulted.

TECHNICAL DATA

Material structure	Cement-based powder
Color	Gray
Mixture density	2050 kg/m ³
Water mixture ratio	18%
Workability time	60 minutes (20°C)
Waiting time between coats	3-4 hours
Application temperature	+5°C / +30°C
Service temperature	-30°C / +90°C
Application thickness	3-50 mm
Chloride ion content	≤ 0.05
Compressive Strength	≥ 45 N/mm ² (28 days)
Breaking strength	≥ 2 N/mm ²

The above values are given at +20°C and for 50% relative humidity. High temperatures shorten the time, low temperatures prolong the time.