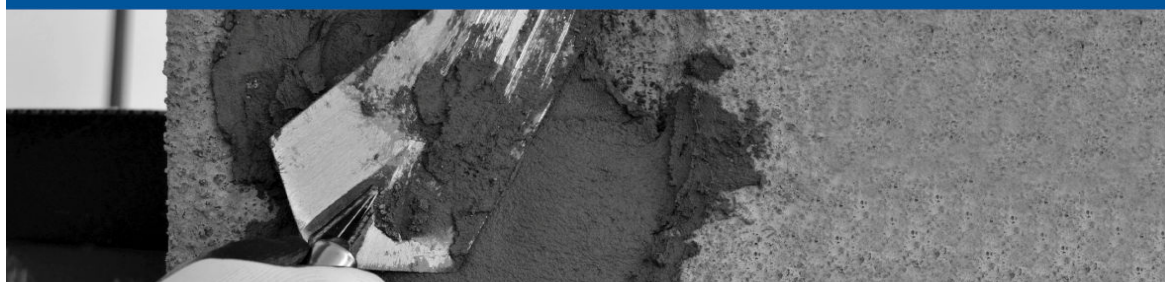


tubetão[®] reabilita



TECHNICAL DATA SHEET

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tubetão

reabilita

levelling and regularization

concrete repair mortar



- easy to apply
- no shrinkage

uses

Tubetão Reabilita is a single component mortar used for repairing and protecting concrete with structural and/or non-structural damage, with low performance requirements. It is suitable for use in buildings and civil engineering projects, in order to prolong the structure's useful life.

Tubetão Reabilita can be applied in the following situations:

- To treat concrete degraded due to weathering, which corrodes concrete reinforcement bars;
- General concrete repairs, pillars, cornices, balconies and other concrete which is permanently exposed to bad weather and which has visible degradation, such as cracking or fissuring.
- Repairs to edges and pre-fabricated concrete slabs.

Tubetão Reabilita is a quick-drying, shrinkage-compensated mortar which reduces work times.

Mechanical properties equal to or better than concrete.

Non-toxic and odourless.

Free from chlorides and metal particles, which avoids a possible attacks on concrete reinforcements. Encourages protection against corrosion.

Can be left bare or be covered.

surfaces

- Reinforced or non-reinforced concrete.



CE marking

R3
European standards
NP EN 1504-3



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recommendations

- Do not apply on plaster-based or painted surfaces.
- On hot days, use a wet cure on the concrete for 48 to 72 hours after application.
- In temperatures under 12°C, it is advisable to mix the product with warm water, in order to ensure normal setting conditions.
- Wash all tools with water immediately after use.
- Prepare only the amount of mortar needed for a specific application, as it dries very quickly.
- For repairs to large angles, edges or corners, apply formwork before applying mortar.
- Do not apply in temperatures below 5°C or if low temperatures are forecast in the 24 hours following application. Do not apply to frozen surfaces.
- Do not use to make wall anchors.
- Do not add any other product to Tubetão Reabilita.
- Do not use the product once it has past its setting time.
- Use only the recommended amount of water.
- Do not apply layers thicker than 3cm per coat.
- Check the condition of the surface before applying Tubetão Reabilita and ensure they have sufficient levels of grip and roughness.

composition and characteristics

Composition:

Special cement, silica sand and specific additives.

Characteristics:

- Total setting time: 12-20 hours
- Useable time after mixing: 20 minutes
- Compressive strength (28 days): ≥ 37 N/mm²
- Bond strength with concrete: ≥ 1.5 N/mm²
- Capillary action: ≤ 0.5 Kg.m⁻².h^{-0.5}

Note: These results were obtained in laboratory tests carried out under European Standard EN 1504-3, under standard conditions, and may vary with changes in temperature and depending on the type of material to which the product is applied.

color

Grey

consumption

20 kg / m² per cm of thickness

available in

- 25 kg sack.
- Palette with 48 sacks.

storage

1 year from the date of manufacture, kept closed in the original packaging and protected from extreme heat or cold, at a temperature of over 5°C.



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preparation of surface

The surface should be clean, solid, dry, free from rust, grease or oil, without deterioration dust, cement laitence or other contamination.

The surface should be rough.

Clean away all dust.

Survey the degraded areas with a hammer.

Remove all the degraded concrete (without allowing thickness to drop below 5mm) in order to expose all reinforcements affected by corrosion. Remove the concrete from each end of the reinforcement bar, exposing it as far as the unaffected part..

The space around the reinforcing bar should be completely free to allow it to be cleaned and repaired properly.

Replace very degraded reinforcement bars.

Remove all rust from the reinforcement bars with a wire brush, sand blaster or gravel.

Clean the surface with high pressure water and leave to dry. Apply an anti-corrosion primer.

Moisten the concrete without soaking it, and allow the film of water to disappear before applying Tubetão Reabilita.



application

For the best bond, Tubetão Reabilita should be mixed into a slurry with a proportion of 1 measure of water to 5 measures of Tubetão Reabilita.

Apply the mix with a brush, filling in all gaps and holes. Apply Tubetão Reabilita before it dries.



Mix Tubetão Reabilita with 3 – 3.5 litres of water per bag, either manually or with a low speed mixer, without prolonging the mixing time, until it makes a uniform, lump-free mixture.

Apply the Tubetão Reabilita mixture with a trowel or spoon, filling in all spaces and compacting it on the surface to be repaired.



Several layers of Tubetão Reabilita should be applied, with thicknesses between 2.5 and 3cm. The surface of the previous layer should be left rough, for better bonding with the following layer. The next layer should only be applied after the previous one has set – i.e. once it is hard, and the material does not yield when the surface is pressed with a finger.

Finishing should be carried out with a flat trowel, smoothing the surface.

Once the repairs are complete, the surface can be finished with another product from the Tubetão range. Afterwards, the surface can be painted.

