Ημ. έκδοσης 12/2025

TSIRCO-REP 122 G

Early High Strength Non-shrink repair mortar for thick applications

Introduction: High early strength, non-shrink thixotropic repair mortar for vertical, horizontal and overhead repairs.

Composition: TSIRCO-REP 122G is one cementitious repair mortar reinforced with fibbers. It contains special cements and additives and specially selected aggregates.

Purpose:
To be used as an economical, easy to use and effective repair mortar for concrete structures with the following advantages:

- Non-shrink.
- Rapid gain of mechanical properties (high early strength).
- High compressive, tensile and flexural strength.
- Good resistance to water, oil, chlorides, sulphates and other chemicals.
- High resistance to frost.
- Resistance to abrasion.
- Very good adhesion to concrete substrate. Primer not necessary.
- Non-toxic.

Usage: 2,2kg TSIRCO-REP 122G will produce about 1 lt of mortar.

Pack: 25kg.

Head office:
Strovolos Industrial Zone,
P.O. Box 23863, 1687 Nicosia, CYPRUS.
Tel: +357 22 - 487029 , Fax: +357 22 - 487716
htpp://www.tsircon.com

Properties:

Colour: Grey
Density: Around 2,2kg/lt
Compressive strength at 20°C: At 24 hours > 20N/mm^2,
At 3 days > 35N/mm^2
At 28 days > 62N/mm^2

Flexural Strength:

At 7 days: > 3.5N/mm²
At 28 days: > 10N/mm^2

Bond Strength to round steel and concrete:

At 28 days: > 3N/mm^2

Where to use:

As high early strength economical repair mortar for:

- Honeycomb surfaces on beams, columns, slabs, walls, e.t.c.
- Bridges.
- Parking aprons.
- Runways.
- Water retaining structures.
- Factory floors.
- Any kind of concrete structures.

How to use:

1. Preparation

The surfaces to be treated must be clean and free from loose material and other contaminants such as oil, grease, dust, e.t.c. When patching on to steel or other metal surfaces any scale, rust, oil and grease should be removed. When patching on traffic areas like parking places and garages, acid etching and/or sandblasting should be preceded to ensure that no grease or tyre marks will be present. Cleaning can also be done by any other mechanical means.

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2. Mixing

Add the material in water and stir thoroughly using preferably a mechanical mixer for about two minutes. Leave the material to stand for another two minutes and stir again.

Mixing Ratio: 25kg TSIRCO-REP 122G with about 3.7-3.8 lt of water.

3. Application

Saturate the substrate sufficiently with water prior to the application of TSIRCO-REP 122G. While the substrate is still damp place the mortar using trowel or putty. Make sure that the cavities are thoroughly filled and compacted. For very porous or week substrates prime the surface with TSIRCO-POLY 101, in order to improve the substrate before applying TSIRCO-REP 122G.

Application Temperature:

Minimum working temperature: +8^{o}C.

Application Thickness:

The product is specially formulated for thickness up to 40mm per layer. For soffits it is recommended that thickness is up to 30mm per layer. Thicker application may be possible depending on the type of substrate, climatic conditions, e.t.c. In such cases, please consult our technical department. Alternatively, you may apply the material in layers.

Cleaning: Use plain water to clean all equipment immediately after their use.

Curing: Use any approved curing method.

Storage Life: Not less than 6 months provided the product is kept in the manufacturers sealed containers and stored in a dry and cool environment away from frost and dampness.

Handling Precautions: TSIRCO-REP 122G is non-toxic. Use gloves if

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required to apply by hand. In case of eye splashes wash thoroughly with plenty of water, but if irritation persists seek medical advice.

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TSIRCON CO LTD,
Manufacturers of Building Materials
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Αρ. Δήλωσης Επίδοσης: DOP 033
EN 1504-3
Concrete Repair product for structural repair CC mortar

Compressive strength: class R4
Chloride ion content : ≤ 0.05%
Adhesive Bond : ≥ 2MPa
Bond Strength after Restrained shrinkage / expansion:≥ 2MPa
Carbonation Resistance : passes
Elastic Modulus : 35 GPa
Thermal compatibility part 1 : NPD
Capillary absorption : NPD
Dangerous substances : comply with 5.4
Reaction to fire : A1

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