

REPAIR-CRETO

General purpose, non-shrink, cementitious micro-concrete

REPAIR-CRETO is a general purpose, non-shrink, cementitious micro concrete supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing non-shrink grout for gap thicknesses up to 100 mm.

It is a blend of cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength. The graded filler is designed to assist uniform mixing and produce a consistent grout.

Key Features

1. Extended application time
2. Increased curing efficacy
3. Improves bond strength to substrate
4. Eliminates cement slurry application over plasters
5. Faster rate of application
6. Reduces wall porosity and void
7. High ultimate strength and low permeability ensure the durability of the hardened grout.

Chemical Base

- Portland cement, selected fillers and aggregates, special additives

Shell Life

- 6 months from date of production

Maximum grain size

- Dmax : 2.36 mm

Shrinkage

- Nil

Applications

1. Highway bridges and culverts
2. Tunnels and mines
3. Dams and reservoirs
4. Car parks and basements
5. Power stations
6. Sewerage and water treatment structures
7. Anywhere where localized deep repair is required
8. Anywhere additional thickness is required (column and beam jacketing, etc.)
9. Structural strengthening of structure by section enlargement

Storage Conditions

- The product must be stored properly in undamaged and unopened, original sealed packaging, in dry conditions at temperatures between +5 °C and +35 °C.
- Protect from moisture, direct sunlight and frost.

Compressive Strength

Curing Time	Compressive Strength
1 day	25 N/mm ²
3 days	35 N/mm ²
7 days	45 N/mm ²
28 days	60 N/mm ²

Values measured at water: powder = 0.15, cube size 70.6 mm, curing temperature +27°C.

Tensile Adhesion Strength

≥ 3 N/mm ² (28 days, +30 °C)	(ASTM C496)
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DIRECTIONS FOR USE

Surface Preparation:

- The application surface should be rigid and free from oil, grease, paint, loose plaster, or any other dirt particles, Dampen the surface before the application of rapid repair material.

Mixing:

- Pour 4-6 liters of potable water into a clean container and then add 1 bag (40 kg) of Brij Additives Rapid Repair.
- It can be mixed by hand. Use of a mechanical mixer or electrical stirrer is recommended for better results. Mixing should be done for 5-10 minutes, depending on the speed of the mixing equipment. Leave the mix to slake for 5-10 minutes and remix before use.

Application

- The mixture should be applied within one hour of preparation. If the concrete surface is smooth and dense, it's recommended that the surface be made rough for better adhesion of the plaster layer.
- In normal weather, Brij Additives Repair Creto doesn't need watering for the first 24 hours. After the plaster is completely dry, curing should be done 1 time for 1 day. In abnormal weather conditions.

Flexural Strength

Curing Time	Compressive Strength
7 days	6 N/mm ²
28 days	9 N/mm ²

Values measured at water: powder = 0.15, curing temperature +27°C.

Expansion

1 to 4 % (Unrestrained expansion)	(ASTM C1090)
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PRECAUTIONS

1. Always add powder to liquid and not liquid to powder.
2. Do not apply to wet or uncured concrete surfaces.
3. Do not apply at temperatures of 3°C or less.



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