



FRAGUA-MIX

CONCRETO ENSACADO DE PEGA RÁPIDA

TECHNICAL SHEET

CRUSHED STONE 1

1. DESCRIPTION

FRAGUA-MIX® is a concrete based on special sulfobeltic cement, selected aggregates and chemical additives, formulated to provide high early strength and fast setting. The product is bagged in an innovative system that allows water addition and homogenization directly in the bag, ensuring easy application.

2. USE AND APPLICATIONS

High-performance concrete indicated for structural repairs requiring fast release. Recommended for situations demanding accelerated setting, high early strength gain, durability and low shrinkage, such as:

- Repairs in floors, joints, foundation blocks, pillars and rigid pavements;
- Resurfacing of slabs, toll plazas, sidewalks and gutters.

Usage suggestion: minimum thicknesses of 4 cm.

3. ADVANTAGES

- Guaranteed strengths
- Eliminates need for concrete mixers
- Easy application
- Labor reduction
- Fast release
- Use anytime and anywhere.

4. FRAGUA-MIX® CHARACTERISTICS

Characteristic	Unit	Standard	Result
Bag weight	kg	-	25
Color	-	-	Beige/Gray
Initial setting	min	-	≥ 20
Final setting	min	-	≤ 60
Compressive strength	MPa	NBR 5739	≥ 15 (1 h) ≥ 20 (2 h) ≥ 25 (6 h) ≥ 30 (24 h) ≥ 40 (28 days)
Fresh concrete density	kg/m ³	NBR 9833	2110
Consistency index (slump)	mm	NBR 16889	S100
Coarse aggregate sizing	mm	-	9.5 mm and 19 mm
Product shelf life	Years	-	2

NOTE: The results presented in the table are under controlled laboratory conditions. On site, consider weather conditions, as there may be variations due to relative air humidity and/or temperature.

5. DOSAGE AND YIELD

Bags	Water content (L)	Volume (L)	Nº of bags/m ³
1 (25 kg)	2.6 to 2.8	≈ 11.8	≈ 84

6. USAGE INSTRUCTIONS

6.1. Application Base Preparation

The application surface must be firm, clean, dry, cool to the touch, free from dust, oil, paint or any other residues that may compromise product adhesion to the base.

Due to the coarse aggregate gradation (crushed stone 1), apply FRAGUA-MIX® at a minimum thickness of 4 cm.

The open time for product use is ≤ 15 min. During this period, do not add water to the original mix or attempt to reuse the material - it should be discarded. Only the addition of specific acids can increase the product's open time. If needed, consult the technical team.

6.2. Mixing: Turn and Turn Again (3 steps)

1. Position the package with the valve facing up and add 2.6 L to 2.8 L of water through it.
2. Tilt the package repeatedly until complete homogenization, eliminating the need for a concrete mixer.
3. Open the bag and pour the content at the desired location. Apply within 15 minutes.

6.3. Curing

The curing process is very important to ensure cement hydration. It is recommended to spray water on the surface, from 1 to 2 h after finishing, keeping the surface sufficiently moist. Chemical curing can be applied, but only after 2 hours of initial wet curing.

7. TRANSPORT

- Avoid platforms that may tear the bags;
- Use straps or bands to tie the bags. If using ropes, protect contact points;
- When using forklifts, position the forks carefully to avoid puncturing the bags;
- To lift the bag, hold it from below with both hands, protecting it lengthwise.

8. STORAGE

- Store bags in a dry and covered place;
- Stack on flat surfaces without irregularities;
- Prioritize using bags with longer storage time;
- Organize rows orderly, maintaining minimum 5 cm spacing between them;
- For prolonged storage, position bags horizontally.

9. PRECAUTIONS

FRAGUA-MIX® contains cementitious materials that may cause skin and eye irritation. Avoid direct contact. It is recommended:

- Use gloves and safety goggles;
- Wash exposed areas with plenty of water;
- In case of eye contact, wash for 10 minutes and seek medical attention