

Fragua-Mix Brita 1

BAGGED FAST-SETTING CONCRETE

TECHNICAL DATA SHEET

MAXIM CIMENTOS ESPECIAIS

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1. DESCRIPTION

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

2. USE AND APPLICATIONS

High-performance concrete recommended for structural repairs that require fast return to service. Recommended for situations that demand accelerated setting, high early strength gain, durability and low shrinkage, such as:

- Repairs to floors, joints, foundation blocks, columns and rigid pavements;
- Slab toppings, toll plazas, sidewalks and gutters.

Suggested use: minimum thickness of 4 cm.

3. ADVANTAGES

- Guaranteed strengths
- No concrete mixer needed
- Easy application
- Less labor
- Fast return to service
- Use at any time and place.

4. FRAGUA-MIX® CHARACTERISTICS

Characteristic	Unit	Standard	Result
Bag weight	kg	-	25
Color	-	-	Beige/Gray
Initial setting time	min	-	≥ 20
Final setting time	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/m³	NBR 9833	2110
Consistency index (slump)	mm	NBR 16889	S100
Coarse aggregate size	mm	-	9.5 mm and 19 mm
Shelf life	Years	-	2

NOTE: The results shown in the table were obtained under controlled laboratory conditions. On site, weather conditions must be taken into account, as variations may occur due to relative humidity and/or temperature.

5. MIXING RATIO AND YIELD

Bags	Mixing water (L)	Volume (L)	No. of bags/m³
1 (25 kg)	2.6 to 2.8	≅ 11.8	≅ 84

6. INSTRUCTIONS FOR USE

6.1. Preparation of the application base

The application surface must be sound, clean, dry, cool to the touch, free of dust, oil, paint or any other residue that could compromise the bond of the product to the base.

Owing to the grading of the coarse aggregate (Brazilian size designation brita 1), apply FRAGUA-MIX® in a minimum thickness of 4 cm.

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

6.2. Mixing: Flip and Tumble (3 steps)

1. Position the bag with the valve facing up and add 2.6 L to 2.8 L of water through it.
2. Tumble the bag repeatedly until fully homogenized, with no need for a concrete mixer.
3. Open the bag and pour the contents into the desired location. Apply within 15 minutes.

6.3. Curing

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

7. TRANSPORT

- Avoid platforms that could tear the bags;
- Use straps or bands to tie the bags. If ropes are used, protect the contact points;
- When using forklifts, position the forks carefully so as not to puncture the bags;
- To lift a bag, hold it from underneath with both hands, protecting it along its length.

8. STORAGE

- Store the bags in a dry, covered place;
- Stack on flat surfaces, free of irregularities;
- Use the bags that have been stored the longest first;
- Arrange the rows in an orderly manner, keeping a minimum spacing of 5 cm between them;
- For prolonged storage, place the bags horizontally.

9. PRECAUTIONS

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

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

Reference translation of the Portuguese technical data sheet (dated July 31, 2026). In case of discrepancy, the Portuguese version prevails. Translation by Maxim, October 2026.

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