

BIG BAG CONCRETE

Fragua-Mix Pavimento

TECHNICAL DATA SHEET

MAXIM CIMENTOS ESPECIAIS

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1. DESCRIPTION

FRAGUA-MIX® PAVIMENTO is a concrete based on special sulfobelitic cement, selected aggregates (Brazilian size designation brita 1) and chemical admixtures, formulated to provide high early-age strength and fast setting. Supplied in 1-tonne big bags for higher-volume work, it is mixed with water in a concrete mixer or mechanical mixer at the application site.

2. USE AND APPLICATIONS

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

- Rigid pavements, concrete slabs, yards and industrial areas;
- Highways, toll plazas, bus corridors and airports;
- Repairs to floors, joints, foundation blocks and columns;
- Slab toppings, sidewalks and gutters.

Suggested use: minimum thickness of 4 cm.

3. ADVANTAGES

- Guaranteed strengths;
- Fast return to traffic;
- Supplied in 1 t big bags for large volumes;
- Higher productivity and less packaging waste;
- Practical, controlled mixing ratio;
- Use at any time and place.

4. FRAGUA-MIX® PAVIMENTO CHARACTERISTICS

Characteristic	Unit	Standard	Result
Big bag weight	kg	-	1,000
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	2,110
Consistency index (slump)	mm	NBR 16889	S100
Coarse aggregate size	mm	-	9.5 to 19
Shelf life	Months	-	3

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

Package	Mixing water (L)	Volume (m³)	No. of big bags/m³
1 big bag (1,000 kg)	104 to 112	≅ 0.42	≅ 2.4

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 (brita 1), apply FRAGUA-MIX® PAVIMENTO 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

1. Prepare only as much as can be applied within 15 minutes at a time;
2. With the equipment running, add water at a ratio of 104 to 112 L per big bag (1,000 kg);
3. With the big bag suspended over the mixer, discharge the product through the bottom valve, keeping it closed between discharges;
4. Mix for 3 to 5 minutes, until fully homogenized;
5. Discharge and apply immediately (within 15 minutes), compacting and leveling the surface.

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

- Move the big bag only by its lifting loops (all at the same time), with equipment of suitable capacity;
- Do not drag the big bag and do not stand under the suspended load;
- When using forklifts, position the forks carefully so as not to puncture the packaging;
- Transport the product covered, protected from rain and moisture.

8. STORAGE

- Store the big bags on pallets, in a dry, covered and ventilated place;
- Do not stack the big bags;
- Use the big bags that have been stored the longest first;
- After opening, keep the valve closed, protect from moisture and use as soon as possible.

9. PRECAUTIONS

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

- Wear gloves, safety goggles and a dust mask during discharge;
- 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 October 22, 2026, rev. 00). In case of discrepancy, the Portuguese version prevails. Translation by Maxim, October 2026.

Maxim Indústria, Comércio de Cimentos Especiais, Importação e Exportação Ltda
contato@maximcimentosespeciais.com.br · www.maximcimentosespeciais.com.br