

REPAIR MORTAR

Mortermax HP05

FAST SETTING AND HIGH STRENGTH

TECHNICAL DATA SHEET

MAXIM CIMENTOS ESPECIAIS

Rev. Jul. 2026

1. DESCRIPTION

MORTERMAX® is a structural mortar based on sulfobelitic cement, high-modulus-of-elasticity aggregates and chemical admixtures. The resulting mortar offers high bond to the substrate, mechanical strength and resistance to abrasion wear. It complies with standard ABNT NBR 9781 for application on floors and pavements subject to heavy traffic (vehicles with rigid wheels). It complies with standard DIN EN 196 for flexural and compressive strength.

2. USE AND APPLICATIONS

High-performance structural mortar for all types of repair work and finishes with fast return to service. It can be used for any purpose where fast setting and strength gain, durability, low shrinkage and high abrasion resistance are required, such as:

- Toppings for floors and pavements that require high resistance to abrasion wear.
- Floors subject to heavy vehicle traffic with rigid wheels.
- Repair of concrete floors and pavements subject to high traffic.
- Minimum thickness ≥ 5.0 mm and maximum ≤ 30.0 mm.

3. ADVANTAGES

- Easily prepared, with excellent consistency for application.
- High bond to the substrate.
- High resistance to abrasion wear.

4. MORTERMAX HP05® CHARACTERISTICS

Property	Unit	Standard	Result
Bag weight	kg	-	20
Color	-	-	Beige / Gray
Initial setting time	min	-	≥ 20
Final setting time	min	-	≤ 60
Flexural strength	MPa	NBR 13279	≥ 3 (24 h) ≥ 4 (72 h) ≥ 5 (7 days) ≥ 6 (28 days)
Compressive strength	MPa	NBR 13279	≥ 20 (1 h) ≥ 40 (6 h) ≥ 50 (24 h) ≥ 60 (28 days)
Tensile bond strength	MPa	NBR 13528	≥ 1 (24 h) ≥ 1.5 (72 h) ≥ 2.0 (7 days) ≥ 2.5 (28 days)
Dimensional change (linear shrinkage or expansion)	mm/m	NBR 15261	≥ - 0.10 (24 h) ≥ - 0.15 (72 h) ≥ - 0.20 (7 days) ≥ - 0.25 (28 days)
Abrasion wear	cm^3	NBR 9781	≤ 23 (1 h) ≤ 20 (6 h) ≤ 20 (24 h) ≤ 20 (28 days)
Fresh concrete density	kg/m^3	NBR 13278	2225
Consistency index (slump)	mm	NBR 13276	≥ 200
Open time	min	-	≥ 30
Shelf life	years	-	1

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

Bags	Mixing water (L)	Volume (L)	No. of bags/m^3
1 (20 kg)	2.1	≅ 11.9	≅ 84

6. INSTRUCTIONS FOR USE

6.1 Preparation of the application base

Mark out the area that will receive MORTERMAX® by saw-cutting or installing formwork. Mill or blast the area until a rough finish is achieved. Clean the substrate with pressurized water, leaving it saturated but without standing water. Then prepare the bag of MORTERMAX®.

6.2 Mixing and method of application

In a clean, dampened container, add the contents of the bag of MORTERMAX® together with the specified amount of water and mix with a portable paddle mixer for 3 minutes until a homogeneous mass is obtained.

After mixing, apply MORTERMAX® immediately, compacting and pressing the material into the bottom and edges of the area with a mason's trowel or metal spatula. Then screed to level and finish with a hand or power trowel. Placing and finishing operations must be completed within 15 to 30 minutes after mixing the product.

It is important to note that the hydration reactions and the subsequent hardening of the product depend on weather conditions. At higher temperatures, the open time of MORTERMAX® is reduced, ranging from 10 to 20 minutes. For best performance, protect the repaired area with plastic sheeting to shield it from wind, rain and sun.

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, away from sources of heat, light and moisture.
- 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

MORTERMAX® 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.

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