

Polyap[®] 702 (MasterCrete[™] WS 702)

Decorative Mineral Plaster

Material Description

Polyap[®] 702 is a cement-based, single-component, polymer-modified decorative plaster with water-repellent properties.

Complies with TS 7847

Classification: E5-S4-V1-W2-A0-C0

Areas of Application

- For indoor and outdoor use
- On mineral-based surfaces
- As a decorative plaster on exterior thermal insulation systems

Characteristics and Benefits

- Mixes with water only.
- Easy and fast to apply.
- Excellent adhesion.
- Vapour-permeable (breathable)
- Resistant to external factors and freeze-thaw cycles.
- Can be painted with solvent-free coatings.

Processing Method


(A) Preparation of Substrate

The application surface should be solid, dry, load-bearing, clean, dust-free, and level. The substrate must be free from any substances that may impair adhesion, such as oil, grease, rust, or paraffin residues, and must not contain any loose particles. Irregular surfaces should be repaired with suitable MBT Tech repair mortars. For the final coat applications on thermal insulation systems, **Polyap[®] 702** can only be applied after the insulation boards are firmly bonded to the surface, mechanically fixed with suitable anchors, and plastered with **Polyap[®] S**. The insulation boards must not deform under wind load.

(B) Mixing

The required amount of clean water is poured into a mixing container using a measuring tool. **Polyap[®] 702** powder is slowly added to the water and mixed with a mechanical mixer operating at 400–600 RPM for 3–5 minutes until a homogeneous and lump-free mixture is obtained. After allowing the mixture to rest for approximately 3–5 minutes, it should be remixed for 30 seconds before application.

Technical Properties

Structure of the Material	Mineral fillers, synthetic additives and special cement	
Color	White	
Adhesion Strength to Concrete (EN 1542)	≥ 0.8 N/mm ² (28 days)	
Application Substrate Temperature	+5°C to +30°C	
Service Temperature	-20°C to +80°C	
Maturation Time	3-5 minutes	
Working Time	1 hour	

The above values are determined at +23°C and 50% relative humidity. Higher temperatures shorten the times, while lower temperatures extend them.

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Mixing Ratio

Polyap [®] 702	Mixing Water Amount	Density of Mixture
For 1 kg powder	~0.25 liter	~1.80 kg/L
For 20 kg bag	~5.00 liter	

(C) Processing

Polyap[®] S is applied in a single layer with fiber mesh reinforcement over the thermal insulation boards that have been bonded with **Polyap[®] Y** and mechanically fixed with anchors. After **Polyap[®] S** has set, the **Polyap[®] 702** mixture is applied to the surface using a steel trowel. The materials, equipment, and workforce should be organized in advance so that the entire surface can be completed in a single operation without joints, depending on the size of the area. Before **Polyap[®] 702** dries, the desired texture or pattern is formed on the surface using a plastic trowel. Once **Polyap[®] 702** has fully set, a flexible exterior coating in the desired color can be applied on top.

Consumption

2.5 - 3.0 kg/m² (powder + water mix)

Points to Consider

- During the application of **Polyap[®] 702**, if the ambient or substrate temperature is below +5°C or above +30°C, the work should be postponed until suitable conditions are achieved.
- Application should also be avoided in very hot, rainy, or windy weather.
- Under no circumstances should water or fresh material be added to a mixture that has already begun to set.
- Additional layers should be applied before the first layer has completely cured (wet-on-wet).
- In exterior applications, the coated surface must be protected from direct sunlight, wind, frost, and rain for the first 24 hours after application.

Cleaning of Tools

All tools and equipment should be cleaned with water immediately after use. Once **Polyap[®] 702** has hardened, it can only be removed from the surface mechanically.

Packaging

Supplied in 20 kg polyethylene-reinforced kraft bags.

Shelf Life

12 months when stored under the recommended conditions in unopened packaging. Opened bags should be tightly resealed and used within one week.

Storage

Store in its unopened original packaging in a cool, dry place protected from frost. For short-term storage, a maximum of three pallets may be stacked on top of each other, and delivery should follow the first-in, first-out principle. For long-term storage, pallets must not be stacked.

Health and Safety

During the application, a protective clothing, gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

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Disclaimer

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