



PRATIX® MP 40

Cement Based Machine-Applied Plaster

About the Product

PRATIX® MP 40 is a cement-based, ready-to-use plaster mortar specially formulated for machine application on interior and exterior surfaces. It allows thick layers to be applied in a single pass and does not sag on vertical surfaces.

Complies with class GP CS IV W1 according to EN 998-1.

GP: General purpose rendering and plastering mortar

CS IV: Compressive strength class ($\geq 6 \text{ N/mm}^2$)

W1: Reduced capillary water absorption

Areas of Use

- For plastering and repairing concrete, brick and similar surfaces indoors and outdoors
- For wall and ceiling plasters
- In residential buildings, shopping centres and hospitals
- On foundations, in tunnels and on roadside embankments

Advantages

- Suitable for both machine and manual application
- Easy to prepare and apply, saves time
- Does not sag on vertical surfaces and provides excellent adhesion
- Long working time
- Offers reduced capillary water absorption while remaining vapour permeable
- Resistant to freeze-thaw cycles

Technical Properties

General Information	
Material composition	Cement, mineral fillers and special chemical admixtures
Appearance	Grey powder
Average dry bulk density	$1600 \pm 100 \text{ kg/m}^3$
Max. grain size	$\leq 1.3 \text{ mm}$
Performance Data	
Compressive strength (EN 1015-11)	$\geq 6 \text{ N/mm}^2$ (CS IV)
Flexural strength (EN 1015-11)	$\geq 1.0 \text{ N/mm}^2$
Adhesive strength (EN 1015-12)	$\geq 0.3 \text{ N/mm}^2$
Fracture pattern (EN 1015-12)	FP: B
Capillary water absorption (EN 1015-18)	$W1 - c \leq 0.40 \text{ kg/m}^2 \cdot \text{min}^{0.5}$
Water vapour diffusion resistance coefficient (EN 1015-19)	$\mu \sim 10 - 25$

Thermal conductivity ($\lambda_{10,dry}$ – EN 1745)	0.6 – 0.8 W/mK
Application Data	
Application temperature	+5°C / +30°C
Application thickness	Walls: max. 25 mm per coat (max. 50 mm in total) Ceilings: max. 10 mm
Mixing ratio (water / powder)	0.20 – 0.22 L water / 1 kg powder 8.0 – 8.8 L water / 40 kg powder
Pot life (manual application)	~60 minutes
Waiting time between coats	Min. 1 day
Consumption	15 – 16 kg/m ² (for 10 mm thickness)
Safety Data	
Reaction to fire class (EN 13501-1)	A1
Hazardous substances	Refer to SDS

The stated technical values were obtained at an ambient temperature of +23°C and 50% relative humidity. Higher temperatures shorten these times, lower temperatures extend them.

Application Instructions

Surface Preparation

The substrate must be sound, load-bearing, dry, clean and free of dust. It must be free of oil, grease, rust, paraffin and similar residues that could impair adhesion, as well as of loose particles. Weak areas must be removed and surface irregularities corrected. In very hot weather or on highly absorbent substrates, the surface must be dampened before application, but no standing water may remain. Substrates such as concrete and aerated concrete must first receive a spatter coat or a suitable primer; the spatter coat or primer layer must cover the surface completely and be fully dry. The product can be applied directly to brick walls.

Mixing

Before application, the water inlet, hoses and electrical connections of the plastering machine must be checked. The machine must be set for automatic mixing with water, and the water flow rate must be determined according to the manufacturer's data (typically 18 – 22 L/min). The bags are emptied into the feed hopper. The consistency must be neither too dry nor too fluid and must not sag when sprayed. Before starting, a trial should be carried out on a small area to check the water ratio and adhesion. For manual application, 0.20 – 0.22 L of clean water is used per 1 kg of powder; the mix is stirred with a low-speed mixer until free of lumps, left to stand for 3 – 5 minutes and then briefly stirred again. No water may be added to a mix that has begun to set.

Application

The material must be sprayed onto the surface in an even thickness and then levelled with a straightedge. Once the plaster has slightly stiffened, excess material is removed and the surface is lightly dampened and floated with a sponge. Do not apply more than 25 mm in a single coat; where a thicker layer is required, the second coat must be applied one day later and the total thickness must not exceed 50 mm. In two-coat applications, the use of a plaster mesh between coats is recommended. The surface must be kept moist for 1 – 2 days after application. Do not apply in weather conditions with a risk of frost (within 24 hours), in direct sunlight, in strong wind or in rainy weather. During application and curing, the ambient and surface temperature must be between +5°C and +30°C.

Cleaning of Tools

After application, the machine and all equipment must be cleaned with plenty of water before the material dries; the worm shaft, hoses, water tank and spray gun in particular must be washed. Hardened material can only be removed mechanically.

Storage Conditions and Shelf Life

Store in its unopened original packaging in a cool and dry place. Packaging must be tightly closed when not in use. Caked or hardened product must never be used. When stored under the correct conditions, the shelf life is 12 months from the date of production.

Safety Precautions

During application, work clothing, protective gloves, goggles and a mask appropriate to occupational health and safety requirements must be used. Because of the irritant effects of the material, the product must not come into contact with skin or eyes; in case of contact, rinse immediately with plenty of water and soap, and in case of ingestion consult a doctor immediately. Foodstuffs must not be brought into areas where the material is applied. Store out of the reach of children. For more detailed information, refer to the Safety Data Sheet.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For more detailed technical information, please consult the product catalogue or contact our representatives.

Packaging

25 kg kraft paper bag

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