

MasterTop® 500

Mortar bonding agent for bonded screeds and cementitious mortars

DESCRIPTION

MasterTop 500 is a mortar bonding agent for bonding screeds and cementitious mortars. For indoor and outdoor use.

CHARACTERISTICS

- Highly secure bonding. Following the appropriate preparation of the substrate, a powerful bond is formed between the cement-based substrate and the conventional cement screeds.
- Waterproof and frost resistant, suitable for universal internal and external use.

FIELDS OF APPLICATION

MasterTop 500 is recommended for:

- indoor and outdoor use
- for walls and floors
- bonding agent for repair mortar, ready-to-mix mortar for fast-track screeds, drain and screed-mortar and sand-cement mortar
- Bonding agent for the installation of fast setting screeds based on binder as well as for conventional cement screeds.
- Bonding agent for the production of bonded coverings in industrial and commercial areas as also for sloping screeds on balconies and terraces.
- Bonding agent for natural stone insensitive to staining and non translucent.

PREPARATION OF THE SUBSTRATE

The substrate must be clean, sound, open-pored, absorbent and sufficiently rough. In the case of bonded coverings exposed by heavy use, the concrete substrate must comply with grade B 25 as a minimum.

Extremely impermeable and smooth substrates, any layers which are not able to bear weight and also damaged concrete surfaces must be roughened and/or removed by appropriate methods, e.g. jet blasting with solid blasting agents or high pressure water jets.

Wet the pre-treated cementitious substrate at least 2 hours, and if possible 24 hours, before applying MasterTop 500. Keep it sufficiently damp. Before applying the slurry, the surface should be mat and damp but must not be wet! Avoid puddles forming!

APPLICATION PROCEDURE

1. Pour 2/3 of the gauging water in a clean mixing container, add MasterTop 500 and mix for at least 3 minutes to form a lump-free bonding slurry. Add the rest of gauging water and mix again. Quantities up to 25 kg can be mixed with a suitable paddle attached to a high-speed mixer. Larger quantities should be mixed in a blade-type concrete mixer.
2. Apply the mixed MasterTop 500 immediately to the prepared surface and work in thoroughly using a hard broom for floors or a brush for walls. Fully cover the whole surface area with the bonding agent. Do not allow the bonding agent to dry.
3. Immediately after applying MasterTop 500, apply the screed mortar or cement mortar to be installed wet on wet.

CONSUMPTION

Approx. 2 to 2,5 kg of dry mortar / m².

REMARKS

- Do not work with MasterTop 500 when substrate temperatures are below +5°C and above +30°C, or in conditions where heat or wind may have a strong effect.
- Substrates treated with water-repellent waterproofing agents or evaporation protection must be pretreated.
- Only mix a quantity of MasterTop 500 that can be used within an hour.
- On large areas apply the slurry in sections. Any further work must be carried out wet on wet.
- The bonding agent must be applied to cover the whole area completely, minimal thickness: 1,5 to 2mm.
- Never add water or wet MasterTop 500 to a MasterTop 500 slurry which has already started to set.
- Clean tools, mixing and work equipment with water immediately after use. When product is dry, cleaning is only possible by mechanical means.

PACKAGING

MasterTop 500 is packaged in 25 kg PE lined heavy duty paper bags.

Shelf life: min. 6 months when stored in dry conditions, no permanent storage over +30°C.

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TECHNICAL DATA*

Physical form	Powder
Components	1 part
Granulometric grading	0 – 2,2 mm
Material base	Special cement, polymers and aggregates
Labelling for - Regulation for hazardous goods on roads - Regulation for hazardous substances	- Non hazardous - Irritant, contains cement
Layer thickness	Approx. 1,5 mm
Working temperature	+5°C to +30°C (temperature of substrate and circulating air)
Quantity of gauging water	
- for 25 kg bag	- approx. 6 litres
- for 1 kg powder	- approx. 240 ml
Mixing time	Approx. 3 minutes
Working time*	Approx. 1 hour

* At 23°C and 50% relative humidity. Higher temperatures reduce, lower temperatures increase the times given.

SAFETY PRECAUTIONS

MasterTop 500 contains cement. Contact with moisture or gauging water sets off an alkaline reaction which may cause skin irritation and/ or caustic burns to mucous membranes (e.g. eyes). Risk of serious damage to eyes, therefore avoid contact with eyes and prolonged contact with skin. In case of contact with eyes immediately rinse with plenty of water and consult a doctor. In case of contact with skin change contaminated clothing immediately and wash skin with plenty of soap and water. Wear appropriate protective gloves (e.g. cotton gloves soaked in nitrile). Keep out of reach of children. If ingested seek prompt medical attention and show packaging or this product data sheet.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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