

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

MasterTop[®] 500;

- 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
- Frost resistant
- Suitable for universal internal and external use.

FIELD OF APPLICATION

MasterTop[®] 500,

- 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.

SUBSTRATE PREPARATION

The concrete substrates on which the product is going to be applied should be C25 or dosage of 350 minimum and the concrete should be 3 weeks old at least. After the preparation of the surface, the tensile strength of the substrate should exceed 1.5 N/mm² (tested with an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate should not exceed 4% (tested with e.g. CM device). A damp proof course should be installed properly and be intact. The substrate temperature should remain +8°C minimum and the temperature of the substrate should at least be 3°C above the current dew point.

All substrates should be structurally sound, dry and clean. Oil, grease and other adhesion impairing contaminants should be removed. Bubble formation on the surfaces which absorbed oil should be removed with the usage of a blastrack or rotatiger. Oil contaminated substrates should first be pre-cleaned with an emulsifying cleaning detergent according to the supplier's instructions. Finally, the concrete or cement screed surface should be cleaned by using a high pressured water jet and excess water should be removed by a wet/dry vacuum cleaner. Before the application, substrate should be saturated with water

and the application surface should be damp. Make sure that there is no free water

APPLICATION PROCEDURE

1. **MasterTop[®] 500** is supplied as a dry powder ready for mixing. Pour 2/3 of the gauging water in a clean mixing container, add **MasterTop[®] 500** and mix with a 400-600 rpm drill for at least 3 minutes to form a lump-free bonding slurry. Add the rest of gauging water and mix again.
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

Appr. 2-2.5 kg/m² (dry mix)

WATCH POINTS

Avoid application under excessive heat or wind and/or when the ambient and/or substrate temperature is below +10°C or above +30 °C.

The materials to be used at the appropriate temperatures should be brought and stored in the application area 1-2 days prior to the application and enabled to adjust the ambient conditions.

In extremely cold conditions, heaters should be used to increase the ambient and the workability of the product, the packages should be preconditioned to +20 - +25°C to become ready to use.

Application should be applied by specialists.

The reaction and workability times of cementitious based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases pot life, coating interval and working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below specified limits.

Mixing is done with a mechanical drill at 300- 400 rpm. DO NOT MIX BY HAND.

The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages. Never add water to the slurry which has already started to set.

MasterTop® 500

Mortar Bonding Agent for Bonded Screeds and Cementitious Mortars

Technical Data	
Physical form	Ready to use powder
Components	Single component
Material base	Special cement, polymers and aggregates
Layer thickness	~ 1,5 mm
Working temperature	+5°C to +30°C
Mixing time	~ 3 minutes
Working time*	~ 1 hour

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

PACKAGING, STORAGE, SHELF LIFE

MasterTop® 500, polietilen takviyeli 25 kg'lık kraft torbalar halinde tedarik edilir.

MasterTop® 500	1 kg powder	25 kg pack
Mixing Water Ratio	Appr. 240 ml	Appr. 6 lt

HEALTH AND SAFETY PRECAUTIONS

It is dangerous to approach the application sites. During the application, a protective apparel, protective 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 mixtures should not come into contact with skin and eyes; in case of 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.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

CONTACT INFORMATION

Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.

Adres: Barbaros Mah. Begonya Sok.

Nidakule Kuzey Ataşehir, C Kapısı

No:3 E/5, 34746 Ataşehir İstanbul / Türkiye

Tel: 0216 217 88 00

Mail: mbs.tr@mbcc-group.com

Web: www.master-builders-solutions.com/tr-tr

® Registered trademark of a MBCC Group member in many countries of the world

MasterTop® 500 Technical Data Sheet -Revision Date: 12/2020