

MasterCoat® 528

Cement Based, Self Levelling Flooring Screed

Material Description

MasterCoat® 528 is a cement based and suitable for thin and thick application at a time, ready to use, self-levelling flooring screed.

Complies with the EN 13813

Areas of Application

- Indoors and in dry environment,
- In hospitals,
- In stores,
- In schools and administrative buildings,
- In hotels,
- In shopping malls,
- In houses, used for levelling uneven, irregular substrate prior to laying ceramic tiles, marble, natural stone, carpet and vinyl.

Characteristics and Benefits

- Highly fluid and pumpable for fast application
- Rapid strength gain for fast installation of floor coverings
- Low installation cost
- Ready for foot traffic after 3-4 hours
- Return to service in 24 hours
- Self levelling

Processing Method

(A) Preparation of Substrate

The surface should be firm, free of dust, dry, clean and strong enough to support the weight. Any oil, grease, rust, gypsum, wax, paint residues, loose particles on the surface should be removed. The joints, cracks etc. should be repaired prior to the application. In large areas, application levels should be determined by gridding. In order to prolong the working time of **MasterCoat® 528** self levelling screed, to enhance the adherence to the floor and to minimize air bubbles;

- Astar A®, is applied with a brush or a roller. On very absorbent surfaces a second layer is applied.
- After the drying test, other operations can proceed.

(B) Mixing

A correct amount of water is poured into a clean mixing bucket using a measuring cup. **MasterCoat® 528** is added gradually and the mixture is mixed with a 400-600 rpm mixing equipment for 3 minutes until a homogenous, lump free mixture is achieved. The mixture is allowed to rest 3 minutes, and after mixing for 1 minutes the product is ready to use.

Technical Properties	
Color	Grey
Compressive Strength (EN 13982-2)	> 20 N/mm ²
Flexural Strength (EN 13982-2)	> 4,0 N/mm ²
Adhesion to Concrete (EN 13982-8)	1,0 N/mm ²
Application Thickness	2 mm – 30 mm
Pot Life	70 – 100 Dakika
Substrate Temperature	+5°C – +25°C
Walkability Time	3 Saat

The above figures are intended as a guide only and should not be used as a basis for specifications.

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Mixing Ratio

MasterCoat [®] 528	1 kg powder	25 kg pack
Mixing Water Ratio	Max. 0.22 lt	Max. 5.5 lt
Mixed Density	> 2.00 kg/lt	

(C) Processing

For larger areas, the use of a mechanical mixer/pump unit is recommended. The mixture should be spread on the surface with a trowel or an adjustable trowel at the required thickness. The mixture spreads evenly by self levelling. Whether pouring from a mixing vessel or using a mechanical mixer with an application hose, the discharge point should be approximately 200 mm from the floor to prevent splashing and air entrapment. Progress should be steady and even. Application should take place continuously into the preceding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle. The fresh wet topping can be rolled immediately with a suitable long spiked roller to release all air retained within the underlayment. Do not roll material that has been applied for more than 2-3 minutes. Maximum thickness should be 30mm. **MasterCoat[®] 528** shouldn't be applied at temperatures below +5°C and sudden fluctuations in the temperature should be prevented. The application shouldn't be carried out in areas with low humidity, higher ambient temperatures, and in areas which are exposed to sun and wind. Do not add water during the curing period.

Note: To achieve a seamless and smooth coating, an uninterrupted application should be made. Therefore, depending on the size of the application area, more than one mixing bucket should be used to provide an uninterrupted application and the prepared mixture should be poured successively on the surface for an effective consumption.

Consumption

1.69 kg/m² powder per 1 mm thickness

Point to Consider

- The applications should be carried out by suitably qualified applicators.
- If the ambient and surface temperatures are less than +5°C and more than +25°C, suitable temperatures should be waited for the application
- Furthermore, the product shouldn't be applied **MasterCoat[®] 528** at extremely hot, wet or windy weathers.
- 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 surface temperature; and in order to increase the workability of the product, the packages should be preconditioned to +20°C - +25°C to become ready to use.
- The working and reaction times of the cementitious systems are affected by the ambient and surface temperature and relative humidity in the air. Hydration slows in lower temperatures and this increases pot life and working time. Higher temperatures increase the hydration and the above mentioned times decreases accordingly. In order for the material to complete setting, the ambient and surface temperature should not drop below the allowed minimum temperature.
- The compound should be allowed to rest after mixing, and then mixed again prior to application.
- Fast drying should be prevented after the product is applied. The applied material should be avoided from the contact of water. Do not use water spray or liquid membrane curing compounds as these may affect the surface texture or prevent bonding of subsequent adhesives used with floor coverings.
- Joints should always be cut in toppings directly above those in the base slab to avoid random cracking.

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Cleaning of Tools

All the tools and equipments must be cleaned by water after the application. After **MasterCoat® 528** is hardened, it can only be removed from the surface mechanically.

Packaging

25 kg polyethylene reinforced kraft bag

Shelf Life

6 months after production date under appropriate storage conditions.

Storage

It should be stored in its unopened original packaging, in a cool and dry place, protected from frost. Storage should be long-term at temperatures above +30°C.

Health and Safety

MasterCoat® 528 contains cement. Contact with water or moisture triggers an alkaline reaction which can cause skin irritation and caustic burns to mucous membranes. There is a risk of serious eye damage. Therefore, eye and prolonged skin contact should be avoided. In case of contact, wash with plenty of water and consult a doctor. In case of skin contact, change protective clothing and wash skin with plenty of water and soap. Protective gloves (nitrile soaked cotton gloves) should be worn. Keep the product out of the reach of children. In case of ingestion of the product, medical attention should be sought quickly and the package or product information sheet should be shown to the medical team.

For further information, consult the Material Safety Data Sheet. For full information on Health and Safety issues relating to this product, the relevant Health and Safety Data Sheet should be consulted. This product and its container must be disposed of in accordance with applicable local laws. This is the responsibility of the end user of the product.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** 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.

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