

MasterTop 528

Commercial grade self-levelling cementitious floor underlayment

MATERIAL DESCRIPTION

MasterTop 528 is a self-levelling, cementitious, non-structural, floor underlayment for use over poured in-situ and precast concrete floors which will be covered by resin overlays, carpet, vinyl, ceramic tiles or natural stone. Only water needs to be added on site to obtain the desired consistency for pumping or manual installation.

MasterTop 528 is applied at thicknesses from 2mm-30mm.

RECOMMENDED FOR

- Finishing rough undulating floors
- Levelling up floors
- Refurbishing old floors

FEATURES AND BENEFITS

- Highly fluid and pumpable for fast installation
- Rapid strength gain for fast installation of floor coverings
- Low installed cost
- Ready for foot traffic after 6-8 hours @ 23°C
- Return to service in 24 hours
- Suitable for most carpet and tile adhesives

TYPICAL PERFORMANCE DATA EN 13813 CT*

Compressive strength	MPa (Dry Cure)
1 Day	10
3 Day	22
7 Day	44
28 Day	54

Other Properties	
Relative wet density	2.1 kg/litre
Approximate wet yield 20kg with 3.5 litre mixing water	9.5 litre per bag
Adhesion @ 28 days	>1.5MPa
Working time at 23 °C	20 mins
Walking time at 23 °C (constant)	6 – 8 hrs
Overcoating time (23 °C, 50% RH)	24 hours @ 10mm

APPLICATION DEADLINES

Substrate Condition:

Substrate must be clean and free of oil, sealers, curing compounds, paint, polymer coatings, dust or other foreign (contaminating) matter. Remove all weak or broken pieces of concrete. If necessary, employ mechanical cleaning methods and equipment. If sealers, paint, polymer coatings or curing compounds are present on concrete substrate, remove with mechanical shotblasting equipment. **MasterTop 528** is best applied where the application temperature is between 5°C and 35°C. Outside this range, please refer to your local Master Builders Solutions Technical Representative.

Voids and cracks (water pipes, holes, drainage pipes etc) should be filled to prevent seepage through to lower levels. Consult with your local Master Builders Solutions Technical Representative for product recommendations.

Note: Joints should always be cut in toppings directly above those in the base slab to avoid random cracking.

Bonding and Priming:

Two coats of **Mastercast 141** are to be used as a primer, the second coat must only be applied once the first coat is touch dry. Application of the primer must be made to a relatively dry substrate to aid primer penetration. First coat: Dilute the **Mastercast 141** with clean potable water to a ratio of 1-part **Mastercast 141** to 1-part water. Applied by brush or roller working the primer into the surface, Apply the primer at a nominal rate of 15 m² /litre and allow to dry. Ensure that no ponding of the product occurs. Second coat: Apply undiluted **Mastercast 141** to first coat at a rate of 8 m² /litre and allow to touch dry, then apply ready mixed **MasterTop 528**.

Note: for heavy Industrial or structural bonding of the screed an epoxy bonding agent may be required. Please consult with our technical department for this methodology.

MasterTop 528

Commercial grade self-levelling cementitious floor underlayment

Mixing:

Mechanical mixing is required for **MasterTop 528**. For small areas, a slow speed stirrer of not more than 600 rpm fitted with a helical paddle, is suitable. Mixing time is 3 minutes.

Place the required quantity of water into the mixing vessel. Whilst mixing, slowly add the powder to the water within 2 minutes then mix for a further 1 minute. Allow mixed **MasterTop 528** to stand for 1 minute and then remix for 1 minute prior to application. Use chilled water at high temperatures for longer application time.

For improved efficiency and continuous production of **MasterTop 528**, it is recommended to use at least two mixing buckets.

For larger jobs, the use of a mechanical mixer/pump unit is recommended. Refer to your local Master Builders Solutions Technical Representative for suitable machines.

Method of Use:

Once primed, within 15 minutes or when the **MasterCast 141** is Touch dry, Pour mixture over substrate or pump through a suitable pump to desired thickness. Whether pouring from a mixing vessel or using a mechanical mixer with an application hose, the discharge point should be approximately 200mm 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 applied thickness should not be greater than 30mm. If a greater thickness is required, please consult a Master Builders Solutions Technical Representative.

Curing:

MasterTop 528 is self-curing, but as with all cementitious products in hot weather, take adequate measures to protect it from exposure to direct sunlight and hot winds. 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. A sealcoat of **MasterCast 141** can be applied as a curing mechanism. Once the surface can take light foot traffic, Spray/Roll on **MasterCast 141** @ Rate of 8m² per litre.

COVERAGE

A 20kg bag of **MasterTop 528** mixed with 3.5 litres of water will yield approx. 9.5 litres of mixed product.

CONSUMPTION

2.1kg powder per 1m² per 1mm thickness.

CLEANING

Tools should be cleaned with water before the material hardens. Hardened material will need to be mechanically removed.

PACKAGING

MasterTop 528 is available in 20kg bags.

SHELF LIFE

MasterTop 528 can be stored in tightly sealed original bags for 12 months if kept dry and at a moderate temperature.

PRECAUTIONS

MasterTop 528 is not toxic, but as with other products containing cement it has an alkaline nature and thus can be irritating to skin and eyes. Wear simple dust masks and gloves when handling. Keep out of reach of children. Wash off splashes of material with clean water. If irritation persists, seek medical advice.

Refer to Material Safety Data Sheet for further information.

MasterTop 528

Commercial grade self-levelling cementitious floor underlayment

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

DISCLAIMER

The technical information and application advice given in this MB Construction Chemicals Solutions South Africa (Pty) Ltd publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.