

MasterTop[®] 515

Ultra-smooth self-levelling cementitious floor underlayment

MATERIAL DESCRIPTION

MasterTop 515 is an ultra-smooth, self-levelling, cementitious, non-structural, floor underlayment intended for use over poured in situ and precast concrete floors which will be covered by carpet, vinyl, ceramic tiles, natural stone or timber.

MasterTop 515 has been specifically formulated to achieve a fast setting, level and flat surface with maximum available flow time. Only water needs to be added at the job site to obtain the desired consistency for pumping or manual installation.

AREAS OF APPLICATION

- Finishing rough screeded floors
- Levelling up floors
- Refurbishing old floors
- Resurfacing internal rain damaged floors
- Internal floors above or below grade
- Not suitable for external wearing surface

CHARACTERISTICS AND BENEFITS

- Highly fluid and pumpable - fast installation
- Rapid strength gain - next day installation of floor covering
- Low installed cost - economical for large areas
- Resistant to cracking - long-term stability of the floor
- Ready for foot traffic after 3-4 hours - minimises time for restriction to floor surface
- Compatible with most carpet and tile adhesives - no restriction of use
- Able to be feather-edged - complete levelling of floor

PROPERTIES

	1 day	28 days
Compressive strength (Test Method: AS 1478.2-2005)	15 MPa	30 MPa
Flexural strength (Test Method: ASTM C 348)	4 MPa	6 MPa
Work time @ 23°C	30 mins	
Setting times @ 23°C – Initial – Final	1 - 1½ hours 1½ - 2½ hours	
VOC content Test method: SCAQMD method 304-91	13 grams/litre	

The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.

Supply form	Powder
Water added per bag (20kg)	4.8 – 5.0 litres
Colour	Light Grey
Application temperature	5°C to 30°C
Toxicity	Non toxic

CURING

MasterTop 515 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. Note: **MasterTop 515** may suffer a damaged, uneven surface if exposed to puddled water.

APPLICATION

Surface preparation

Remove all grease, oil, dust, residual curing compound, mould release agent or other contaminant that could impair adhesion. Laitance should preferably be removed by light shot blasting or grinding. A surface profile of CSP 3-5 is desired.

MasterTop 515 is best applied where the application temperature is between 5°C and 30°C.

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

Note: Expansion joints should always be reflected through the topping to avoid random cracking

Mixing

Mechanical mixing is required for **MasterTop 515**. For small areas a slow speed stirrer of not more than 600 rpm such as a Festo RW3E mixer fitted with a cage paddle. Place the required water into the mixing vessel and slowly add powder to the water.

Whilst mixing, add powder then mix for a total of 4 minutes. For more efficient production it is recommended to use two mixing buckets for continuous supply of **MasterTop 515**.

Pour mixture over substrate or pump through a suitable pump to desired thickness. Do not coax **MasterTop 515** as it will seek its own level. For hard to reach areas and touch-ups, a spreader may be used.

For larger jobs, the use of a mechanical mixer/pump unit is recommended (such as a Putzmeister MP 25).

Priming

Apply **MasterTop 1600** to the dry substrate by roller, brush, low-pressure spray or squeegee. On very porous or absorbent substrates 2 coats may be required to effectively seal the substrate. Take care to avoid puddling of the primer. Allow to dry before application of **MasterTop 515**.

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Application

Progress should be steady and even with the application hose discharge point approximately 200mm from the floor. Application should take place continuously into the proceeding wet material to ensure even thickness and flow. Do not make new edges and 'fill in' the middle. Edges may be feather edged using a steel trowel if required. Maximum thickness should be 30mm. If greater thickness required, **MasterTop 515** should be mixed with MasterTop F30 Aggregate on a 1:1 basis by weight and applied to a maximum of 80mm.

SHELF LIFE

MasterTop 515 can be stored in original bags for 9 months if kept dry and at a moderate temperature. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

ESTIMATING DATA

One 20kg bag of **MasterTop 515** yields 12.2 litres.

MasterTop 515				
L	Thickness in mm /m ²	m ³	bags /m ³	m ² /mm thickness
12.2	12.2mm	(0.012)	82	12.2 m ²

PACKAGING

MasterTop 515 is available in 20kg moisture resistant bags.

DISCLAIMER

MasterTop-515-ANZ-V10-0121

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia 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 and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by MB Solutions Australia Pty Ltd either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not MB Solutions Australia Pty Ltd, are responsible for carrying out procedures appropriate to a

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