

MasterTop[®] SL 144

Commercial grade self smoothing cementitious floor underlayment

DESCRIPTION

MasterTop SL 144 is a self-smoothing, 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 SL 144 is applied at thickness from 1mm-15mm.

TYPICAL APPLICATIONS

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

ADVANTAGES

- Highly fluid and pumpable for fast installation
- Rapid strength gain for fast installation of floor coverings
- Low installation cost
- Light foot traffic after 8 hours
- Return to service in 24-48 hours
- Suitable for most carpet and tile adhesives

PACKAGING

MasterTop SL 144 is available in 25 kg bags.

TYPICAL PROPERTIES*

Mixed density @ 25°C	Approx. 2 kg/L
Pot life @ 25°C	30 min
Setting time	100 min
Compressive strength @ 28 days BS EN 13892-2:2002	>20 MPa
Flexural strength @ 28 days BS EN 13892-2:2002	>5 MPa

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 SL 144 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 Construction Chemicals 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 Construction Chemicals Technical Representative for product recommendations. Note: Joints should always be cut in toppings directly above those in the base slab to avoid random cracking.

PRIMING

The substrate shall be saturated with **MasterTile P 302** mixed with water 1:1. Use at least 0.2 L (approx.) of the primer for the initial priming. Allow to dry until a transparent film has been formed. Absorbent / porous substrates should be primed twice. The second coat shall be approx. 0.07 L/m² (ratio 1:1 with water). Apply neat **MasterTile P 302** on moisture sensitive substrates.

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MIXING

Mechanical mixing is required for **MasterTop SL 144**. For small areas, a heavy-duty handheld mixer (300 – 600 rpm) fitted with a Collomix DLX 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 SL 144** to stand for 3 minutes 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 SL 144**, it is recommended to use at least two mixing buckets or suitable mixer-pump.

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

PLACING / APPLICATION

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 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 15 mm. If a greater thickness is required, please consult a Master Builders Solutions Technical Representative.

CURING

MasterTop SL 144 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.

CLEANING

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

COVERAGE / YIELD

A 25 kg bag of **MasterTop SL 144** mixed with 5.0-5.5 L of water will yield approx. 15 L of mixed product.

CONSUMPTION

2 kg of mixed material per m² per mm thickness.

STORAGE AND SHELF LIFE

MasterTop SL 144 can be stored in tightly sealed original bags for 6 months if kept dry and at a moderate temperature.

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HEALTH AND SAFETY

MasterTop SL 144 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.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the MBCC Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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.

NOTE

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

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