

MasterTop® 1215

Seamless, Self-smoothing, Solvent Free Epoxy System for 2mm thick

DESCRIPTION

MasterTop 1215 is a seamless, self-smoothing based on advanced solvent free epoxy resin system for flooring. It provides a glossy, easily cleaned and hygienic surface with excellent resistance to mechanical wear and chemical attack.

MasterTop 1215 may be applied at thickness 2mm to produce a smooth finish.

USES

MasterTop 1215 is recommended for areas with normal to medium abrasion or where, a high level of aesthetics is essential. Application areas include:

- Clean rooms in pharmaceuticals and other industries
- Automotive servicing and assembly areas
- Aircraft maintenance hangers
- Refurbishment to existing epoxy flooring

FEATURES AND BENEFITS

- **Closed pore free surface** - Seamless and gloss film for hygienic application
- **Durable** - Good wear and abrasion resistant
- **Self-smoothing Liquid** – Easy to apply
- **Low maintenance** - Good resistance to a wide range of chemicals

PROPERTIES

Mixed density	: 1.60 kg/litre
Pot life	: Approx. 30 min (25 °C) : 15 min (40 °C)
Setting time/Foot traffic	: 15 hours at 25°C
Vehicular traffic	: 48 hours at 25 °C
Maximum service temperature	: -10 to 60 °C
Compressive strength, ASTM D695	: > 60MPa at 7days

Abrasion resistance, CS17 wheel	: <90mg loss
Shore D Hardness	: >75
Adhesive bond strength, ASTM D4541 adopted	: > 2Mpa (Concrete failure)
Full curing time	: 7 days at 25°C

APPLICATION INFORMATION

Ambient Air Temperature

+10°C to +30°C

Relative Humidity

70% relative humidity maximum

Dew Point

The substrate and uncured mixed material must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.

Note: Low temperatures and high humidity conditions increase the probability of blooming.

Substrate Requirement

The floor receiving **MasterTop 1215** must be sound, dry, and fine-grained and load bearing, free of laitance and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants.

The tensile strength of the substrate must be at least 1.5MPa. Ensure that the compressive strength of floor concrete is at least 25MPa and that the floor slabs directly in contact with the ground have a proper vapour barrier installed and the moisture content of substrate shall not be higher than 4% throughout using Tramex CM.

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Materials Temperature Requirement

The products must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +10°C and +30°C.

Very low or very high temperature will make application more difficult and careful consideration should be given to storage of materials. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20 - 25°C will reduce the possibilities of flash/slow setting and other defects.

Surface preparation

Remove oil, grease, and mould release agent and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Remove cement laitance and weak concrete by shot blasting or grinding followed by vacuum cleaning. Repair damaged or pitted areas using **MasterEmaco repair mortar** or consult BASF sales representatives.

Priming

Prime floor with **MasterTop 1140**. Double priming is required if the substrate is very porous.

Mixing

For a project, it is advisable to ensure that all **MasterTop X1** Colour Packs are the same batch number to minimize risk of colour variation. All mixing should be done using a slow speed drill (600-900rpm) and a spiral mixing paddle,

Premix **MasterTop BC 312 Part A** resin followed by adding **MasterTop X1** colour pack, and thoroughly mix to ensure the pigment is uniformly dispersed. Add the **MasterTop BC 312 Part B** hardener and continue to mix for 30 seconds, Add in **MasterTop F7** Filler slowly and mix for another 2.5 minutes.

Placing

MasterTop 1215 can be applied to a thickness of 2mm onto a smooth and flat substrate to a self-smoothing finish. Pour the mixed **MasterTop 1215** over the substrate and spread with a notched trowel or a pin screed to the desired thickness.

Roll the coating with spiked roller to expel air and achieve a smooth finish. Continue spike rolling until all air is released but well before the material starts to stiffen.

Curing

MasterTop 1215 is self-curing. Protect the applied area from dust, spillage, insects and pedestrian traffic for at least 24 hours.

ESTIMATING CONSUMPTION

Primer	: 0.2-0.25 kg/m ²
Topcoat	: 3.6 kg/m ²

PACKAGING

MasterTop 1140 primer is supplied in 10L pack

MasterTop 1140 Part A : 7.5L/ pail

MasterTop 1140 Part B : 2.5L/pail

MasterTop 1215 is supplied in 15kg set

MasterTop BC 312 Part A : 5.4kg/pail

MasterTop BC 312 Part B : 3.0kg/pail

MasterTop F7 Filler : 6.0kg/bag

MasterTop X1 : 0.6kg/tin

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CLEANING

Tools used to prepare and apply **MasterTop 1215** are cleaned with ethanol or thinners immediately after use. Once hardened, the product may only be removed using mechanical means

SHELF LIFE

MasterTop 1215 has a shelf life of 12 months. Store the materials out of direct sunlight, clear of the ground on pallets protected from rainfall. Protect from freezing and discard if it has frozen.

PRECAUTIONS

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