

# MasterTop<sup>®</sup> 1205

Seamless, Self-smoothing, Solvent Free Epoxy Floor Coating System

Adhesive bond strength  
ASTM D4541 adopted

>2MPa (concrete failure)

## DESCRIPTION

**MasterTop 1205** is a seamless floor coating based on advanced solvent free epoxy resin system. The cured coating provides a glossy, easily cleaned and hygienic surface with excellent resistance to mechanical wear and chemical attack. **MasterTop 1205** may be applied at thickness between 0.15-0.3mm to produce either a smooth or profiled finish.

## RECOMMENDED USES

**MasterTop 1205** 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 & 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	: 1.50 kg/litre
Pot life	: >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	: < 90 mg
Shore D Hardness at 7 days	: >75

## APPLICATION

### Substrate requirement

The floor receiving **MasterTop 1205** 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.

### Temperature requirement

Substrate temperature : 15 - 35°C

Material temperature : 15 -30°C

Very low or very hot 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** at 5m<sup>2</sup> per litre.

### 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, add the **MasterTop X1** colour pack, and thoroughly mix to ensure the pigment is uniformly dispersed. Add the **MasterTop BC**



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# MasterTop® 1205

**312 Part B** hardener and continue to mix for 30 seconds, Add in MasterTop 1210 Filler slowly and mix for another 2.5 minutes.

## Placing

**MasterTop 1205** can be applied to a thickness of 0.15 – 0.3mm onto a smooth and flat substrate to a self-smoothing finish. Pour the mixed **MasterTop 1205** over the substrate and spread with a squeeze to the desired thickness. Roll the coating with roller to achieve a smooth finish.

## Curing

**MasterTop 1205** is self-curing. Protect the applied area from dust, spillage, insects and pedestrian traffic for at least 15 hours.

## ESTIMATING DATA

Primer : 0.2-0.25kg/m<sup>2</sup>  
Body coat : 0.25-0.4kg/m<sup>2</sup>

## PACKAGING

**MasterTop 1140** primer is supplied in 10lt per pack consisting of:

Mastertop 1140 Part A :7.5lt  
MasterTop 1140 Part B :2.5lt

**MasterTop 1205** is supplied in 17kg and 15kg per pack consisting of:

MasterTop BC 312 Part A 5.4kg  
MasterTop BC 312 Part B 3.0kg  
MasterTop 1210 Filler 8.0kg or 5.0kg  
(depending on the desired profile)  
MasterTop X1 0.6kg

## SHELF LIFE

**MasterTop 1205** has a shelf life of 12 months. Store 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 Material Safety Data Sheet (MSDS) from our office or our website.

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