

# MasterTop<sup>®</sup> 1210

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

## DESCRIPTION

**MasterTop 1210** 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 at thickness between 0.7 – 1.0 mm. **MasterTop 1210** may be applied to produce either a smooth or profiled finish.

## RECOMMENDED USES

**MasterTop 1210** 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	:	45 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	:	< 96 mg
Shore D Hardness	:	> 78
Adhesive bond strength, ASTM D4541 adopted	:	> 2MPa (concrete failure)

## APPLICATION

### Substrate requirement

The floor receiving **MasterTop 1210** must be sound, dry, fine-grained and load bearing, free of laitance, loose 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, 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 2525** or consult BASF sales representatives.

### Priming

Prior to mixing, stir **MasterTop P 1602** Part A mechanically, add all of Part B and mix for 3 minutes until uniform. Apply **MasterTop P 1602** by brush, roller or squeegee. If necessary, two coats of primer might be required.

### Mixing

Mix mechanically, using a slow-speed drilling machine fitted with appropriate spiral paddle. Add MasterTop X1 Pigment Paste completely to the part A (base) and

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mix well, pour the part B (hardener) into the mixture of Part A and MasterTop X1 and mix for a minute. Then, add the part C (filler) completely into the mixed color resin system to obtain a homogeneous mixed **MasterTop 1210** with a uniform colour obtained. Keep the mixing time same for all batches to ensure a uniform colour when the product is applied.

## Placing

**MasterTop 1210** can be applied to a thickness of 0.6 – 1.0mm onto a smooth and flat substrate to a self-smoothing finish. Pour the mixed **MasterTop 1210** 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 1210** is self-curing. Protect the applied area from dust, spillage, insects and pedestrian traffic for at least 15 hours.

## ESTIMATING DATA

Primer	: A 30kg unit of <b>Mastertop P 1602</b> yields 28.3litres.
Coverage	: A 14kg unit of <b>Mastertop 1210</b> yields 9.3litres of mixed material.
On concrete surface	: Each pack is sufficient for 18m <sup>2</sup> to achieve average thickness of 500 microns

## PACKAGING

**MasterTop P 1602** primer is supplied in 30 kg per pack consisting of:

<b>Primer:</b>	Mastertop P 1602 Part A	23.6 kg
	Mastertop P 1602 Part B	6.4 kg

**MasterTop 1210** is supplied in 14 kg per pack consisting of:

<b>Body Coat:</b>	Mastertop 1200 Part A	5.4 kg
	Mastertop 1200 Part B	3.0 kg
	Mastertop X1 Colour	0.6 kg
	Mastertop 1200 Filler	5.0 kg

## SHELF LIFE

**MasterTop 1210** 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.

## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF 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 BASF Construction Chemicals either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.

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