



The Chemical Company

MASTERTOP[®] 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 0.5 – 1.0 mm. **MASTERTOP 1210** may be applied to produce either a smooth or profiled finish.

FIELDS OF APPLICATION

MASTERTOP 1210 is recommended for areas where abrasion due to rubber wheeled traffic or chemical spillage could pose risks of floor erosion and help breed bacterial colonies and where, a high level of aesthetics is essential. Application areas include:

- Clean rooms in pharmaceuticals & other industries,
- Packing and storage areas of sugar, fertilizers and pharmaceuticals plants,
- Automotive servicing and assembly areas,
- Aircraft maintenance hangers,
- Refurbishment to existing epoxy flooring,

FEATURES AND BENEFITS

- Good resistance to a wide range of chemicals
- Pore free, seamless and gloss film for hygienic application
- Good wear and abrasion resistant
- Easy apply
- Limited maintenance
- Durable

TYPICAL PERFORMANCE DATA

Mixed density	: 1.56 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	: > 80

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 bond 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% through out.

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 the cold weather conditions, pre-condition materials by keeping it in a heated room. 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 Concrete 2525 or consult BASF sales representatives.

Priming

Apply **MASTERTOP P601** primer at a coverage of 0.3 – 0.5 kg/m², depending on the condition and porosity of the substrate.

Mixing

Mix mechanically, using a slow-speed drilling machine fitted with appropriate wing paddle. Add part D colour paste completely to the part A (base) and mix well, pour the part B (hardener) into the part A and part D mixture and mix for a minute. Then, add the part C

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(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 0.5 – 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 (for at least 15 hours) and vehicular traffic (for at least 48 hours).

CLEANING

All equipment can be cleaned using acetone or methyliso-butyl ketone before resin hardens.

ESTIMATING DATA

Primer	: A 30kg unit of Mastertop P601 yields 28.3 litres
Coverage	: A 14kg unit of Mastertop 1210 yields 9.3 litres of mixed material.

On concrete surface : Each pack is sufficient for 18m² to achieve average thickness of 500 microns

PACKAGING

MASTERTOP P 601 primer is supplied in 30 kg per pack consisting of:

Primer:	Mastertop P601 Part A	23.6 kg
	Mastertop P601 Part B	6.4 kg

MASTERTOP 1210 is supplied in 14 kg per pack consisting of:

Body coat:	Mastertop 1210 Resin (A4)	5.4 kg
	Mastertop 1210 Hardener (B4)	3.0 kg
	Mastertop X1 Colour	0.6 kg
	Mastertop 1210 Filler	5.0 kg

SHELF LIFE

MASTERTOP 1210 can be kept for 12 months from date of manufacturing if stored in unopened containers under sheltered storage in a cool and dry area.

PRECAUTIONS

For Health, Safety and Environmental Recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

AN/Mtop1210/v1/020811

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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

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