

# MASTERTOP® 1230

Epoxy based coloured seamless self-smoothing architectural flooring system

## DESCRIPTION

**MASTERTOP 1230** is a seamless, self-smoothing architectural flooring system based on an advanced solvent free epoxy resin system and selected graded aggregate. The smooth impervious surface finish provides an easily cleaned and hygienic surface with excellent resistance to chemical and mechanical attack.

## RECOMMENDED FOR

- Pharmaceutical and cosmetic industries
- Laboratory areas
- Medical facilities
- Clean rooms and other sterile areas
- Showrooms
- Decontaminable areas
- T.V. studios
- Warehouses and high rack storage
- Laundries

## FEATURES AND BENEFITS

- **Pre-packaged and proportioned**
- **Wide colour range**
- **Excellent durability**
- **Easily cleaned**
- **Decontaminable**
- **High resistance to chemical and mechanical attack.**
- **High level of aesthetics**
- **Seamless and jointless**

## TYPICAL PERFORMANCE DATA (23 C)

Compressive Strength (DIN 1164)	85MPa
Flexural Strength (DIN 1048)	35MPa
Bond Strength (ZTV SIB87)	>2.5MPa (concrete failure)
Abrasion Resistance (DIN53754)	98mg
Modulus of Elasticity (SIA 162/1)	9GPa
Coefficient of Linear Thermal Expansion	100x10 <sup>-6</sup> /°C
Temperature resistance	-20°C to +60°C

## CHEMICAL RESISTANCE

To confirm suitable chemical resistance discuss with BASF Construction Chemicals representative. Pay particular attention to aggressive cleaning cycles and temperature of both chemicals and cleaning regimes.

## PROPERTIES

Supply form	4 part system incl. colour pack and filler
Colours	Refer to colour card
Application Temperature (Ambient and Substrate)	Minimum 8°C Maximum 30°C
Surface Finish Grades	Economical & First Class

## APPLICATION

### Surface Preparation

The compressive strength of the substrate shall not be less than 25MPa . The concrete slab in contact with the ground must have a vapour barrier installed in compliance with DIN 18195 or equivalent, or be primed with **CONCRECIVE 2525**.

The moisture content of the substrate shall not be higher than 8% throughout. The temperature of the substrate must be at least 3°C above the current dew point temperature.

Surfaces must be structurally sound, clean, and free from loose particles, oil, grease, and all other contaminants. Remove oil, grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Cement laitance, loose particles, mould release agents, curing membranes and other contaminants must be removed from the surface by shot blasting, Blastrac®, scarifying or grit-blasting followed by vacuum cleaning.

After pre-treatment of the substrate, the bond strength of the substrate must be at least 1.5 N/mm<sup>2</sup>. For filling up surface irregularities such as blowholes, cracks, honeycombs, etc., please consult BASF sales representative.

Protect walls and columns against resin splashes using masking tape and plastic sheeting.

### Mixing

For a project it is advisable to ensure that all **MASTERTOP X1** Colour Packs are the same batch number to minimise risk of colour variation.

All mixing should be done using a slow speed drill (600-900rpm.) and a spiral mixing paddle, or pan mixer. Premix **MASTERTOP A1** resin, add the **MASTERTOP X1** colour pack, and thoroughly mix to ensure the pigment is uniformly dispersed. Add the **MASTERTOP B1** hardener and continue to mix, slowly add the **MASTERTOP F11** filler and mix for a further 3 minutes, occasionally scraping the side and bottom corner of container. Ensure the final mix is lump free, homogeneous and even in colour. Mixing of large mixes (multiples of the above kits) may be done in a forced action mixer. Ensure all containers are completely empty before disposal.

### Priming

Prime floor with **CONCRECIVE 2530** or **CONCRECIVE 2525**, at 5m<sup>2</sup> per litre (typical). Porous concrete surfaces will require 2 coats of **CONCRECIVE 2530**, which is always recommended on first class surface. Dense surfaces will require only 1 coat of **CONCRECIVE 2525**. NOTE: Refer separate data sheets.



The Chemical Company

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The mixed material should be applied on to the prepared and primed floor using a notched or flat trowel to a typical thickness of 2mm minimum. The surface should be spike rolled to remove the entrapped air. Ensure application is a continuous operation and laying is within 15 minutes of mixing and spike rolled within 5 minutes of laying.

**It is recommended that a small trial area be undertaken at the start of the work for approval of surface finish.**

## POT LIFE

Pot life will vary according to the quantity mixed, ambient and substrate temperatures. The mixed material will have a pot life of approximately 60 minutes at 20°C.

## CURING

Waiting times between **CONCRETE 2530/2525** and **MASTERTOP 1230** should not be less than 8 hours and not more than 24 hours. Where extended over coating times are envisaged then the BASF Construction Chemicals primer must be lightly broadcasted with sand or the cured primer reactivated using mechanical techniques and solvent wiping.

**MASTERTOP 1230** should be protected from traffic and spillage for at least 48 hours. Full chemical and mechanical resistance is obtained after 7 days.

## CLEANING

Uncured material may be removed using **Thinner No. 1**. Cured material may only be removed mechanically.

## ESTIMATING DATA

**A1 Resin + B1 Hardener + X1 Colour Pack**  
+ 10kg **F11 Filler** = 13.5 Litres  
2mm Thickness = 6.75m<sup>2</sup> per kit

## PACKAGING

**MASTERTOP 1230:** **A1 Resin** 9.4kg  
**B1 Hardener** 3kg  
**X1 Colour Pack** 0.6kg  
Total Yield 9.5L  
**F11 Filler** 10kg/6.25L dry

## SHELF LIFE

**MASTERTOP 1230** components may be stored in tightly sealed original containers for 24 months in controlled environments, between 10°C-30°C.

## PRECAUTIONS

As with all epoxy products wear protective overalls, goggles and gloves. Prolonged contact with skin should be avoided as it could produce dermatitis, particularly with people whose skin may be sensitive to epoxy resin systems. Ensure adequate ventilation.

Mix entire contents of each unit as supplied. Do not attempt to split units unless accurate measurement can be assured.

Do not use at temperatures of less than 8°C ambient or substrate or where relative humidity exceeds 80% without reference to BASF Construction Chemicals.

Consider pre-warming all materials to 23-28°C approximately for ease of handling especially in cold temperatures. In cold environments, exposure to water prior to full cure may cause a whitening of the surface.

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## 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** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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