



The Chemical Company

MASTERTOP[®] 1240HS

Coloured, high strength, industrial flooring system

DESCRIPTION

MASTERTOP 1240HS is a high strength, industrial flooring mortar screed, based on a selected solvent free epoxy resin system, compatible colour pack and graded aggregates. The mixed mortar is screedable and can be laid to provide a jointless topping.

It is available in a choice of 5 standard colours. Special colours can be supplied subject to a minimum offtake. The colour is normally supplied in the X1 colour pack, but for large applications the colour can also be factory blended into the Part A component if desired.

FIELDS OF APPLICATION

MASTERTOP 1240HS is recommended for floors subjected to high abrasion and / or chemical attack. It is ideal for:

- Manufacturing and storage areas.
- Areas subject to high traffic and loading
- Areas exposed to aggressive chemicals
- Reprofiling worn and damaged industrial floors.

FEATURES AND BENEFITS

Chemical, abrasion and impact resistant	Lower maintenance costs.
Slip resistant	Safe working areas.
Closed dense surface	Prevents staining due to ingress of oils and liquids. Easily cleaned.
Pre-proportioned	Avoids batching errors. Consistent performance batch to batch.
Wide colour range	Attractive floors. Pleasant working environment.

TYPICAL PERFORMANCE DATA

7 days cure @ 20°C	
Compressive strength (ASTM C349)	: >100 N/mm ²
Flexural strength (ASTM C348)	: 40 N/mm ²
Adhesion strength (pull out) (Adopted from ASTM D4541)	: > 2.4 N/mm ² (concrete failure)
Abrasion resistance, wt. loss (ASTM D4060-Taber)	: 150 mg (after 1000 cycles)
Type of calibre abrasion wheels	: CS + 17
Coeff. of linear expansion	: 30 x 10 ⁻⁶ /°C
Service Temperature	: -20°C to 60°C
Application Temperature	minimum : 8°C maximum : 35°C

PROPERTIES

a. Components

	Part A	X1	Part B	Filler F15
Form	Liquid	Paste	Liquid	Aggregate
Colour	Clear	Coloured	Clear	Grey

b. Mixed systems

Components	: Part A:X1:Part B:F15
Mix ratio (by weight)	: 6.80 : 0.60 : 1.96 : 90.8 to 113.5
Mix density	: 2.1 kg/L (at 90.8 kg of F15)
Colour	: Refer to colour samples
Working time @20°C	: 60 minutes

Curing time

@ 10°C	@ 20°C	@ 30°C
5 – 7 days	3 – 4 days	2 – 3 days

APPLICATION

MASTERTOP 1240HS is a two layer treatment on the prepared substrate consisting of Priming Coat and Body Coat. Where required, a Sealer Coat can be applied as the third layer.

Surface Preparation

Ensure that the compressive strength of floor concrete is at least 25 N/mm² and that concrete slabs directly in contact with the ground have a proper vapour barrier installed as per DIN 18195 or an equivalent standard.

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound, clean and free from 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 agent, curing membrane, and other contaminants must be removed from the surface by shotblasting (blastracking), scarifying or gritblasting followed by vacuum cleaning.

Lay and fasten strips of aluminium channel or wooden beading of suitable height as forms, along the borders to control the topping to the desired thickness.

Joints: Existing joints in the floor should be continued through the **MASTERTOP 1240HS** system. Design the joint dimension to allow for anticipated movement.

Priming Coat

Apply **MASTERTOP 1140** (see separate data sheet) as primer.

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Body Coat

Mixing

Use a forced action mixer to mix **MASTERTOP 1240HS**. Thoroughly stir one unit of Part A, then add one cartridge of X1 colour pack and mix until the colour pigment is evenly dispersed. Add one unit of Part B and continue to mix while slowly adding four bags of F15 and mix further for 3 minutes until a homogeneous and uniformly coloured mortar is obtained.

Note : In some cases, depending on the desired surface texture, 5 bags of F15 can be mixed. Consult BASF Construction Chemicals for advice.

Placing

The body coat should be applied onto the primer when it is still wet.

Apply the mixed mortar by trowel and screed bar to thickness of not less than 4 mm. Compact and form as required. Strike off excess mortar, level with a straight edge then trowel to finish. A blotchy surface indicates over troweling.

Top Coat (optional)

Where a totally sealed surface is desired, apply MASTERTOP 1080 or MASTERTOP 1110 (see separate data sheets).

Curing

MASTERTOP 1240HS is self curing. The curing time depends on the ambient temperature, and the quantity mixed and placed. Under normal circumstances initial curing will take place overnight and full cure in 7 days.

MASTERTOP 1240HS must be suitably protected for at least 24 hours after laying from following trades, spillage, dust, insects, animals, traffic, moisture, etc.

CLEANING

Clean the tools and equipment first with rags, then wipe off using a solvent such as acetone, or methylisobutylketone before the resin system hardens.

ESTIMATING DATA

The consumption of both the primer and body coat depend on floor profile, thickness and wastage. On a dense smooth surface typical consumption at 5 mm thickness will be:

MASTERTOP 1140 (Primer)	MASTERTOP 1240HS
0.20 L/m ²	10.5 kg/m ²

Therefore, each pack on mixing can cover 9.57 m² at 5mm thickness on a flat substrate excluding wastage.

PACKAGING

The various components of **MASTERTOP 1240HS** are available in the following packaging.

Component	Description	Packaging
Part A	Resin	6.80 kg can
X1	Colour pack	0.60 kg cartridge
Part B	Hardener	1.96 kg can
F15	Filler	22.7 kg can

SHELF LIFE

All components in **MASTERTOP 1240HS** can be kept for 12 months from date of manufacture, if stored in original unopened packaging, in a dry enclosed place without exposing to direct sunlight and at temperatures below 35°C.

PRECAUTIONS

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

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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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