



The Chemical Company

# MASTERTOP<sup>®</sup> 1140

Solvent free epoxy resin primer and sealer

## DESCRIPTION

**MASTERTOP 1140** is a two component, solvent free epoxy resin coating designed for application as a primer or a sealing coat. It can be applied to dry or damp surfaces.

## FIELDS OF APPLICATION

- priming of concrete floors prior to application of certain MASTERTOP polymer industrial flooring systems.
- sealing concrete floors for high quality dust proofing and chemical resistance.

## FEATURES AND BENEFITS

<b>Excellent adhesion</b>	Does not peel off.
<b>Adhesion to even damp surfaces</b>	Avoids expensive surface preparation for achieving bone dry substrates.
<b>Chemical resistance</b>	Advantage in a chemically aggressive environment
<b>Solvent free</b>	No irritating vapours of solvent during application. No difference between wet and cured film thickness.
<b>Pre-proportioned packing</b>	No batching errors. Consistency from pack to pack.
<b>Can be pigmented</b>	Aesthetically more pleasing sealing coat possible.

## TYPICAL PERFORMANCE DATA

Bond strength (concrete) : > 2.5 N/mm<sup>2</sup>

### Chemical resistance

Mastertop 1140 resists most common organic and inorganic acids in diluted form, alkalis, oils, grease, etc. Chemical resistance depends on the chemicals involved, their concentrations, temperatures and periods of exposures. Good house keeping practices such as immediate clean up of all spillages, will greatly extend the service life of the coating.

## PROPERTIES

	Part A	Part B
Supply form	Liquid	liquid
Colour	Clear	Amber
Colour (mixed)	: Amber	
Mix ratio (PartA:PartB)	: 3:1 by vol.	
Density (mixed)	: 1.1 kg/L	
Application Temperature	: Min. 5°C, Max. 30°C	
Pot life at 25°C	: 30 minutes	

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## APPLICATION

### Surface preparation

Correct substrate preparation is critical for optimum performance. Surfaces should be structurally sound, clean and free from loose particles, oil, grease or any other contaminants.

Remove oil grease and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Remove cement laitence, loose particles, mould release agent, curing membrane, and other contaminants from the surface by wet grit blasting, high pressure water jetting (approximately 150 bars) or other such effective methods.

If surface irregularities exist, apply **MASTERTOP 1140** epoxy primer mixed with MASTERTOP F1 Filler as a fairing coat

### Mixing

Remove rims of the containers of the two components to ensure that all the contents of each component can be used.

Mechanical mixing is necessary. A slow speed (600 rpm) drill with a rod type mixing paddle is recommended. Mix the entire contents of both Part A and Part B containers together to avoid batching errors.

However, if part mixing is necessary, stir each component individually and then measure out precisely each component in the proper ratio (3:1 by vol.) into a clean, dry pail for subsequent mixing. Mix only quantities that can be applied within 30 minutes after mixing.

Ensure that the remaining contents of each container are not contaminated.

Mix Part A slowly and add Part B. Continue to mix for 2 to 3 minutes.

### Placing

Apply **MASTERTOP 1140** immediately after mixing.

**Note:** Application of the mixed **MASTERTOP 1140** must be completed within 30 minutes after mixing the two Parts together.

Apply the coating by brush, roller or airless sprayer. Ensure that the surface is sealed. To achieve complete sealing two coats may be required, the second coat applied 24 hours after the previous coat. Do not apply at temperatures under 5°C.

If the surface has been treated with fairing coat as described under surface preparation, allow the fairing coat to set and within 24 hours apply the first coat of **MASTERTOP 1140**.

### CURING

**MASTERTOP 1140** is self curing. The curing time depends on the ambient temperature, and the quantity mixed and placed. It will harden overnight at ambient temperatures.

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If using as a primer, the top coat should be applied within 24 hours after application of **MASTERTOP 1140**. The coating will be fully cured in 7 days.

## CLEANING

Clean the tools and equipment using a solvent such as acetone, or methylene chloride before the resin system hardens.

## ESTIMATING DATA

Actual consumption of **MASTERTOP 1140** depends up on the surface absorption, roughness, loss and wastage. On dense smooth surfaces, 1 litre of **MASTERTOP 1140** will cover approximately 4-5 m<sup>2</sup>. Therefore, material consumption on such surfaces will be 0.2-0.25 L/m<sup>2</sup>.

## PACKAGING

**MASTERTOP 1140** is available in 5 L and 20 L packs.

## SHELF LIFE

**MASTERTOP 1140** can be kept for 12 months from date of manufacture if stored in original unopened packing, in a dry enclosed place, without exposing to direct sunlight.

## PRECAUTIONS

**Fire : Mastertop 1140** is flammable. Avoid exposure to naked flame. Do not smoke while handling the product. For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions on the product Material Safety Data Sheet.

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## STATEMENT OF RESPONSIBILITY

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