

# MasterTop® 1080

## Three components Epoxy Resin Floor Coating

### DESCRIPTION

MasterTop 1080 is a durable, easily applied, chemical and abrasion resistant protective coating, based on a three component epoxy resin system with high solid content. It is user friendly to mix and provides a hard, durable and glossy film. The system uses a separate color pack, which is available in a wide range of colors.

### RECOMMENDED FOR

MasterTop 1080 can be applied on a wide variety of substrates such as concrete, masonry, timber, etc. It is recommended as a protective coating on floors and walls where both high levels of aesthetics and chemical resistance are desired. It is ideal for:

- multi-levels car parks
- chemical industries (limited spillage)
- electronic, electrical and electroplating industries
- pharmaceutical and cosmetic plants

### FEATURES AND BENEFITS

High resistance to chemicals	Durable in chemically aggressive areas
Good resistance to abrasion	Lowers maintenance costs
Excellent adhesion	Does not peel off
Good adhesion	Bond strength exceeds concrete tensile strength

### TYPICAL PERFORMANCE DATA

Service Temperature	-20°C to 60°C
Application Temperature	Minimum 10°C Maximum 35°C

### PROPERTIES

#### a. Components

	Supply form	Color
MasterTop 1080 Part A	Paste	Light brown
MasterTop 1080 Part B	Paste	Amber
MasterTop X1	Paste	Colored

#### b. Mixed systems

	Components	Mix ratio by Package
MasterTop 1080	A:B	1:1
MasterTop X1		3 to each unit

#### Pot-life (minutes)

	@10°C	@20°C	@30°C
MasterTop 1080	120	90	45

#### Curing time(days)

	@10°C	@20°C	@30°C
MasterTop 1080	7	2	1

#### Maximum permissible relative humidity

	@10°C	at > 23°C
All components	75%	90%

### APPLICATION

#### (A) SURFACE PREPARATION

The compressive strength of the substrates shall not be less than 30 N/mm<sup>2</sup>. The substrates in contact with the ground must have a vapour barrier installed, or be primed with MasterTop P 1601. The substrate moisture content shall not be higher than 4% throughout (Test by using CM equipment). The temperature of the substrates must be at least 3°C above the current dew point temperature. Correct substrate preparation is critical for optimum performance. 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 membrane 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>: (check with an approved pull-off tester at load rate 100N/s).

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Fill surface irregularities such as blowholes, cracks honeycombs, etc. with a MasterBrace repair mortar to achieve a smooth and level surface.

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

### (B) MIXING

Use a low speed (300rpm) electric drill fitted with a paint mixer or a wing type paddle. Mix one unit of MasterTop 1080 Part A with two cartridges of MasterTop X1 until the color is uniform then add one unit of MasterTop 1080 Part B and mix for at least 3 minutes or until the mix is uniform and free of streaks.

Note: To ensure a uniform color shade only use MasterTop X1 paste cartridges with identical batch numbers.

Whilst MasterTop 1080 is supplied in preproportioned kits for complete mixing, smaller quantities of coating can be prepared by mixing Part A and Part B in the easy to measure ratio of 9:21.2 by weight.

Premix MasterTop 1080 Part A with 3 units of MasterTop X1 and then measure out precisely equal amounts of each component in the proper ratio into a clean dry pail for subsequent mixing. Ensure that the remaining contents of each part are not contaminated.

### (C) PLACING

Apply MasterTop 1080 by roller, brush or spray onto the prepared surface. If the surface has been treated with a fairing coat, allow the fairing coat to set; and within 24 hours apply the first coat of MasterTop 1080. The first coat may be thinned up to 10% with approved thinners to aid penetration into the substrate and to maintain a wet edge at the overlaps. Follow with the second coat after 18 hours but not beyond 36 hours. The second coat may be thinned up to 10% to achieve an even appearance.

Following the application of the MasterTop 1080, protect coated area for at least 24 hours against spillage, dust, insects, small animals, traffic, rain, moisture, etc.

### CLEANING

Clean tools and equipment first with paper towels or rags, then wipe using a solvent such as acetone, or methyl-isobutyl ketone before the resin system hardens.

## ESTIMATING DATA

(For thickness of 0.2mm non-slip)

System	Product	kg/m <sup>2</sup>	Thickness mm
MasterTop 1080	A:B:X1	0.5	0.2

## PACKAGING

MasterTop 1080	9kg/set and 21.2kg/set
MasterTop X1	0.6 kg/can(3X)

## SHELF LIFE

Master Top 1080 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 and at temperatures between 15 to 35°C.

## SHELF LIFE

For full information on Health and Safety matters regarding this product the relevant Material Safety Data Sheet should be consulted.

Keep out of reach of children. Keep container closed when not in use. As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Use in well ventilated areas, avoid inhaling. Suitable respiratory equipment may be needed. Wear protective eye shields and gloves during use. Do not smoke when stored or in use. In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact wash affected areas with soap and water. If irritation persists, seek medical attention. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, seek immediate medical attention.

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