

# MasterTop<sup>®</sup> 1110

## Water Dispersed Epoxy Resin Coating

### DESCRIPTION

**MasterTop 1110** is durable coating based on an advanced water dispersed, two part epoxy resin. It has been specially formulated to provide a durable coating system. MasterTop 1110 is available in a large range of colors. For available colors, please refer to Color Chart.

### RECOMMENDED FOR

MasterTop 1110 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:

- Wall coating in pharmaceutical and other areas that must be easy to clean
- Protection of light duty floors against mild acids, alkalis, mineral oils etc
- Warehouse and other light traffic areas
- Electronics industry & clean rooms

### FEATURES AND BENEFITS

Odourless non toxic	No offensive odour. Non toxic, no ventilation required
Resistant to attack by chemicals	Lowers maintenance costs
Water vapor Permeable	Allows surface to breath preventing build up of vapor pressure
Non flammable	Advantage in areas prone to fire hazard
Tools can be cleaned with water	Environment friendly and cost saving

### TYPICAL PERFORMANCE DATA

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

### PROPERTIES

#### a. Components

	Supply form	Color	Density kg/l
MasterTop 1110 Part A	Liquid	Optional	1.40
MasterTop 1110 Part B	Liquid	Amber	1.01

#### b. Mixed systems

	Components	Mix ratio by Weigh
MasterTop 1110	A:B	1:1

#### Pot-life (minutes)

	@10°C	@20°C	@30°C
MasterTop 1110	120	60	30

#### Curing time(days)

	@10°C	@20°C	@30°C
MasterTop 1110	7	2	1

#### Maximum permissible relative humidity

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

#### Watch Point

Always adhere to the stated pot-life parameters! MasterTop 1110 will not always exhibit changes in viscosity due to exotherm. This will mean that it still appears workable. If applied outside the out of the pot life, the color may change.

### APPLICATION

#### (A) SURFACE PREPARATION

The compressive strength of the substrates shall not be less than 30 N/mm<sup>2</sup>. 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

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must be at least  $\geq 1.5\text{N/mm}^2$  (check with an approved pull-off tester at load rate 100N/s).

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

Protect walls and columns against resin splashes using masking tape and polyethene 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 1110 Part A with one unit of MasterTop 1110 Part B for at least 3 minutes until the mix is uniform and free of streaks.

### (C) PLACING

The mix is applied to the pre-treated substrate by spraying, paint-roller or a brush. Depending on the absorbency of the substrate, the MasterTop 1110 mixture for the first coat may be diluted with up to 10% of water. Apply the first coat onto the still damp substrate or pre-wet the surface to be coated.

Ensure that there is no free standing water on the surface when application commences.

Following application of MasterTop 1110 , the coated area must suitably be protected for at least 24 hours after laying, from spillage, dust, insects, small animals. traffic. rain. moisture.etc.

### CLEANING

Clean tools and equipment first with paper towels or rags, then wipe using water before the resin system hardens.

### ESTIMATING DATA

System	Product kg/m	<sup>2</sup>	Thickness mm
1 <sup>st</sup> coat	MasterTop 1110 Diluted with (approx.)1 0% water	0.2	0.2
2 <sup>st</sup> coat	MasterTop 1110	0.2	0.2

### PACKAGING

MasterTop 1110 10.0 kg/set

### HEALTH AND SAFETY

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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