

MasterTop[®] 1230 AS

Two-component Solvent-free EP Self-leveling Anti-static High Chemical Resistant Floor Overlay

DESCRIPTION

MasterTop 1230 AS is a solvent free, conductive, two component epoxy resin based coating with high resistance to chemicals.

RECOMMENDED FOR

MasterTop 1230 AS is designed for use as coating for medium duty industrial floors in areas where ground water contaminating chemicals are produced, handled and applied and in secondary containment applications. It is used in the systems of AS and ESD.

FEATURES AND BENEFIT

- High resistance to chemicals
- Exhibits excellent mechanical strength and anti-static properties
- Abrasion resistant
- Good adhesion to non-porous substrates
- Easy to clean and maintain
- Easy to apply
- Extremely resistant to a variety of alkalis, diluted acids, brine, mineral oils, lubricants and fuels

TYPICAL PERFORMANCE DATA

Mixing ratio A:B	Parts by weight	5.40:1
Mixed density		1.80
Viscosity	At 23°C	Approx.1800cp
Pot-life (16 kg/drum)	At 20°C	Approx.30min
Fully cured/ready for exposure to chemicals	At 23°C	7days
Substrate and application temperature	Min. 15°C	
	Max. 30°C	
Max. permissible relative humidity	80%RH	

ShoreD hardness	After 28 days	78
Resistance (Resistance to ground or Surface resistance)	Re.: GB/T22374-2008 Test voltage: 100V	1 X10 ⁴ - 1 X 10 ⁶ ohms,

The above figures are intended as a guide only and should not be used as a basis for specifications.

APPLICATION

MasterTop 1230 AS is supplied in working packs which are pre-packaged in the exact ratio. Before mixing, precondition both A and B components to a temperature of approximately 15 to 25°C.

Pour the entire contents of Part B into the container of part A. Do not mix by hand. Mix with a mechanical drill and paddle at a low speed (ca.300rpm) for at least 3 minutes. Scrape the sides and the bottom of the container several times to ensure complete mixing. Keep the mixer blades submerged in the coating to avoid introducing air bubbles. Do not work out of the original container. After proper mixing to a homogeneous consistency pour the mixed Parts A and B into a fresh container and mix for another minute. After mixing, MasterTop 1230 AS is applied to the substrate coated with MasterTop CP 687 W-AS or MasterTop CP 689 W-AS conductive primer, using a notched trowel or scraper. The teeth size should be selected according to the thickness of layer required (take care not to exceed max. recommend coverage rate). To remove air bubbles, defoaming twice by spike roller, first time defoaming in 5min after application and the second interval 5min at 23°C ambient condition (If at low and high temperature condition, delaying or shortening interval time accordingly).

The curing time of the material is influenced by the ambient, material and substrate temperatures. At low temperatures, the chemical reactions are slowed down; this lengthens the pot life, open time and curing times. High temperatures speed up the chemical reactions thus the time frames mentioned above are shortened accordingly. To fully cure, the material, substrate and application temperature should not fall below the minimum. After application, the material should be protected from direct contact with water for approx. 24h (at 20°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed. Carbamate has a marked effect on the conductivity of the coating and has to be removed.

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Substrate Pre-treatment

MasterTop 1230 AS must be applied to substrates primed with conductive primer MasterTop CP 687 W-AS or MasterTop CP 689 W-AS. The substrate must be load bearing, free of loose and brittle particles as well as substances, which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. All substrate must be either sand or grit blasted to remove laitance and friable surface matter. Pre-treatment is only necessary when the re-coating interval of the conductive layer has been exceeded. If necessary, the conductive layer must be renewed. After surface preparation the tensile strength of the substrate should exceed 1.5 N/mm² (check with an approved pull-off tester i.e. 'Herion' at a load rate of 100 N/s). The residual moisture content of the substrate must not exceed 4% (check with e.g. CM device). The temperature of the substrate must be at least 3 K above the current dew point temperature. A damp proof course must have been properly installed and intact.

CONSUMPTION

2.0 - 3.0 kg/m² according to system.

PACKAGING

MasterTop 1230 AS is supplied in 16kg working packs.

CLEANING

During work the tools should be cleaned with the recommended cleaning agents. Likewise, tools

should be thoroughly cleaned as soon as work has been completed.

COLOUR

MasterTop 1230 AS is available in a range of colors. Consult your local sales office.

SHELF LIFE

Store in original containers, under dry conditions at a temperature between 15 - 25°C. Do not expose to direct sunlight and prevent the temperature from falling below the above mentioned range (crystallization). For maximum shelf life under these conditions, see "Best before..." label.

HEALTH AND SAFETY

In its cured state, MasterTop 1230 AS is physiologically non-hazardous. The following protective measures should be taken when working with the material: Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. When working with the product do not eat, smoke or work near a naked flame. For additional references to safety-hazard warnings, regulations regarding transport and waste management please refer to the relevant Material Safety Data Sheet. The regulations of the local trade association and/or other authorities, regulating safety and hygiene of workers handling epoxy resins must be followed.

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MT 1230 AS / 2 /1109

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