MasterTop® 1206

Two component epoxy coating

DESCRIPTION

MasterTop 1206 is a versatile epoxy floor coating system designed for continuous protection in light to medium duty smooth finish applications in thicknesses between 0.2 to 0.5mm.

With the addition of MASTERTOP SR (slip resistant aggregates) on primer or between coats, medium to heavy duty slip resistant applications can be achieved in system thicknesses between 0.50 to 2.0mm.

PRIMARY USES

MasterTop 1206 has excellent wear, abrasion and chemical resistance and is suitable for use in a wide variety of industrial and commercial applications. It can be used to provide a surface coating with a high gloss hygienic finish or a slip resistant traffic deck protection system.

MasterTop 1206 provides impermeable protection against common ions such as chlorides, nitrates, sulphates and etc. It is also resistant against common oils, greases, lubricants, aviation fuels and hydraulic oils such as Skydrol. In addition **MasterTop 1206** offers excellent chemical resistance. As in all corrosive situations, a full analysis of operating and exposure conditions is required, followed by reference to chemical resistance data to ensure product suitability.

MasterTop 1206 can be used extensively in but is not limited to the following areas of application.

- Chemical manufacturing plants.
- Coating of re-bars against chemical attack
- Pharmaceutical and other medical facilities.
- Car production and showroom facilities.
- Aircraft hangars and maintenance areas.
- Warehouses with light/ medium traffic.
- Food and beverage production areas.
- Traffic decking – including pedestrian and vehicle ramps for light duty vehicles.

ADVANTAGES

- Good wear and abrasion resistance.
- Excellent chemical resistance.
- Smooth high gloss finish for hygienic applications.
- Slip resistant finish in trafficable applications.
- Impermeable surface protection against common ions
- Easy application by brush, roller or squeegee.
- Available in standard colours with colour matching available to RAL/ BS colours depending on quantity required.

PACKAGING

MasterTop 1206 is supplied in 4 litre or 20 litre packs.
A 4 litre pack contains 6.50 kg of product.

TYPICAL PROPERTIES

	25°C	**40°C**
Pot Life	30 mins	15 mins.
Initial Cure	18 hours	12 hours.
Max. overcoating time	36 hours	18 hours.
Final cure	72 hours	36 hours
Full chem.. resistance	96 hours	48 hours
Mixed density	1.625 approx	
Max. service temp.	60°C	
Compressive strength	60 N/mm^2	
Flexural strength	25 N/mm^2	
Tensile strength	15 N/mm^2	
Bond strength	In excess of the cohesive strength of parent concrete.	

GUIDE TO APPLICATION

Remove all surface laitance, oil, grease or any defective concrete that will reduce the bond of the **MasterTop 1206**.

The surface to which the **MasterTop 1206** is to be applied must be flat and roughened.

Surface irregularities must be ground down or filled out with **MasterBrace ADH 2200** or repair materials from **MasterEmaco** range.

A light etch giving the profile of medium grit sandpaper is the ideal surface for the application of **MasterTop 1206**,this can be achieved by light grit blasting or high pressure water jetting, captive blasting or surface grinding.

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BASF does not recommend the use of acid etching as a floor preparation method. If it is used, the method must be approved by the concerned project authorities.

After all preparation has been completed, ensure dust is removed from the surface. This is best achieved using an industrial vacuum
.
Specialist finishes should not be applied to concrete which contains more than 5% moisture by mass. The substrate can be considered sufficiently dry when the relative humidity at the surface falls to 75% or less when measured with a hygrometer to BS 8201: 1981.

PRMING / SEALING:

Provided that the substrate is properly prepared and is of good quality dense concrete, priming is not normally required prior to application of **MasterTop 1206**. If the concrete is porous or there are any reservations as to the quality of the substrate then a sealer coat should be applied.

The sealer coat is prepared by adding up to 5% by volume of **MasterTop Thinner no. 2** (200ml max) to the mixed 4 litre pack of **MasterTop 1206**. (1 litres max) to a 20 litre pack.

MasterTop 1206 with the addition of **MasterTop Thinner no. 2** as described should be applied at 6-8m^2/litre depending on surface texture and porosity. Allow the sealer to become tack-free before applying the top coat.

MIXING:

The base and reactor components of **MasterTop 1206** must be thoroughly stirred before they are mixed together. After mixing, add the entire contents of the reactor container into the base container and mix the two components for 2 minutes using a slow speed drill fitted with a special mixing head until all striations have disappeared and a uniform colour is obtained.

APPLICATION

MasterTop 1206 is a versatile product and can be applied in various application thicknesses from 104 microns to 260 microns per coat giving DFT thickness of 0.2 to 0.5 mm when applied as a two coat system.

To achieve a smooth finish at application between 104 microns to 260 microns per coat, a short hair roller or brush is suitable.

For large areas, Airless Spray application can be used. Airless Spray equipment such as Graco Bulldog Hydra,De Vilbiss, Nordon-Bede or Spee-Flo with a fluid tip between 0.38 to 0.53mm opening.

For slip resistant finishes, apply the sealer coat or base coat first. The base coat can immediately be dressed with the appropriate **MasterTop SR** by completely blinding the base coat at approximately 3.5kg/m^2. After initial cure of the base coat (18 hours at 25^{O}C or 12 hours at 40^{O}C) the excess aggregate can be removed for re-use by brushing or vacuuming.

Alternative textures can be obtained by varying the amount of **MasterTop SR** broadcast on to the base/ sealer coat.

The top or lock coat can now be applied. Depending on the surface profile, type and density of the **MasterTop SR** used, the top coat will consume up to 50% more material than the base coat to achieve a fully sealed surface. The top coat must be applied within the maximum over coating time period i.e. 36 hours at 25^{O}C or 18 hours at 40^{O}C.

EXPANSION JOINTS

Expansion joints in the existing substrate floor must continue through the **MasterTop 1206** coating. Contact your local BASF representative for advice on appropriate sealants from the Saudi BASF range.

CHEMICAL RESISTANCE

MasterTop 1206 excellent resistance to the following chemicals:

- Formaldehyde, 40% solution.
- Sulphuric Acid, 20% solution.
- Hydrochloric Acid, 20% solution.
- Hydrochloric Acid, 5% solution.
- Lactic Acid, 50% solution.
- Nitric Acid, 10% solution.
- Sodium Hydroxide, 50% solution.
- Diesel fuel.
- Wine.

We create chemistry

MasterTop® 1206

- Salt water.
- Aviation Hydraulic fuels (Skydrol)
- Vegetable Oils.

YIELD

The theoretical yield is 1.04 liter at 1mm/m^2 or 0.52 liter at 0.5mm/m^2. For re-bar coating against corrosion protection, 1.0 liter will cover 125 linear meter of a 12mm bar excluding wastage. Generally for airless spray at least 10% wastage should be taken into account.

WATCHPOINTS

Prior to use, **MasterTop 1206** should be stored undercover and protected from extremes of temperature which will cause inconsistent workability, finish and cure times for the mixed material. 24 hours before mixing it is advisable to condition the material at 20 to 25^{O}C.

When working in cold conditions, do not apply **MasterTop 1206** if the substrate or ambient temperature cannot be maintained above 10^{O}C for at least 10 days from the commencement of application.

MasterTop 1206 is suitable for application to smooth surfaces only.

EQUIPMENT CARE

Remove uncured **MasterTop 1206** from tools and equipment using **MasterTop Thinner no. 2** If **MasterTop 1206** has cured then it can only be removed by mechanical means.

STORAGE AND SHELF LIFE

Store out of direct sunlight, clear of the ground and on pallets. Protect from rainfall. Avoid excessive compaction and protect from extremes of temperature. In tropical environments the product must be stored in an air conditioned environment.

Shelf life is 12 months from production date when stored below 27^{O}C.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which could be tainted during the curing/ drying phase of the product). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal the containers after use.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All BASF Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and BASF ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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