

MASTERSEAL[®] 300PE

Polyester bonded resin protective coating for concrete.

Description

MASTERSEAL 300PE is a flexible, elastomeric coating based on polyester bonded resin that creates a hydrophobic coating in the presence of moisture. Applied as a liquid it cures to form a durable, protective, waterproof membrane to protect the concrete substrate.

Primary uses

MASTERSEAL 300PE is designed for the protection of concrete structures against carbonation, chloride ingress and mild chemicals. The product is also suitable as a curing compound.

Areas of application are:

- Below and above grade concrete foundations.
- Underpasses.
- Bridge, soffits, wing walls.
- Concrete repairs.
- Commercial buildings.
- Industrial buildings.
- Waterproofing a variety of substrates.
- Curing compound

Advantages

- Easily applied by roller, brush or airless spray.
- Applicable on concrete less than 24h after pour.
- Protective - barrier against salts, atmospheric gases and mild acids and base.
- Cost effective application.
- Waterproof - protects concrete from waterborne salts.
- U.V. stable - maintains its appearance.

Packaging

MASTERSEAL 300PE is supplied in 20 litre pails with a polyethylene liner.

Typical properties*

Relative density:	1.34 kg/l at 25°C
Solid Content	42.8%
Chloride ion diffusivity:	32%
Tack free time	25 minutes @ 30°C
Complete Cure	7 days @ 25°C
Application temperature:	5°C to 50°C
Chemical resistance:	resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis
Pull Off Value on Concrete	>1.3 N/mm ²
Colours:	Grey and White

Application procedure

MASTERSEAL 300PE can be applied by brush, roller or airless spray equipment. For airless spray use a tip size of 19-23 thou. Do not dilute MASTERSEAL 300PE any further with water.

Surface preparation: concrete

All concrete surfaces should be treated to achieve a sound, clean surface free from laitance, oil, grease, mould release agent, residual curing compound, dust or other contaminants that could impair adhesion.

Application:

MASTERSEAL 300PE can be applied by brush, roller or airless spray. For application as protective coating, we recommend to apply 0.5L / m² to achieve a dry film thickness (DFT) of approximately 160 micron. We recommend two coats to be applied to achieve a total dry thickness of 320 microns. Apply the second coat of MASTERSEAL 300PE when the first has dried, at right angles to the first.

For application as curing compound, we recommend to apply 0.5L / 2m² to achieve a dry film thickness (DFT) of approximately 80 microns. We recommend two coats to be applied to achieve a total dry film thickness of 160 microns. Apply a second coat of MASTERSEAL 300PE when the first has dried, at right angles to the first.

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Weather conditions

MASTERSEAL 300PE is not resistant to rain until the film has dried. This may take less than 30 minutes in hot dry climates and up to 24 hours in temperate humid conditions.

Generally the product should not be applied in rain or if rain is forecast. Similarly, MASTERSEAL 300PE will freeze in its wet state so should not be applied to frozen substrates or when the temperature is below 5°C or likely to fall during application.

Coverage

Depending on application requirements, please contact MBT Middle East for technical guidance.

Storage

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air conditioned environment. Shelf life is 12 months if stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advices consult Saudi BASF Technical Services Department.

Specification clause

COATING

The protective / decorative coating shall be Saudi BASF MASTERSEAL 300PE. Surface preparation and application shall be strictly in accordance with the manufacturer's recommendations.

PREPARATION:

All concrete surfaces shall be sound, clean and free of any loose material, non-compatible curing compounds, dirt and dust. If MASTERSEAL 181 is to be used as the primer the surface must be grit blasted to open up the surface and remove all laitance.

Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

Quality and care

All products originating from Saudi BASF facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

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* Properties listed are only for guidance and are not a guarantee of performance.

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