

# MASTERSEAL<sup>®</sup> CP150

## Vinyl ester resin primer

### Description

MASTERSEAL<sup>®</sup> CP 150 is a high performance vinyl ester corrosion resistant protective primer for application on concrete and steel substrates. In addition to excellent physical strength, impact and thermal shock resistance MASTERSEAL<sup>®</sup> CP 150 also exhibits superior resistance to acids, alkalis, hypochlorites and many solvents. Ultimate protection is developed within 4 days at room temperature (25°C) and can take longer for temperatures below this.

### Typical applications

MASTERSEAL<sup>®</sup> CP 150 is used with MASTERSEAL<sup>®</sup> CP 150 S system and offers maximum corrosion and temperature resistance protection to concrete and steel structures against acids, alkalis, hypochlorites and solvents. MASTERSEAL<sup>®</sup> CP 150 can also be used as a gas and vapour barrier. Other usage areas include oil refineries, paper mills, power stations, garages, tanks, hospitals, sugar refineries, hangars, laboratories and most chemical containment areas. Contact your BASF representative for further advice.

### Features

- Durable
- Service temperature up to 105°C\*
- Waterproof and protective
- High chemical resistance
- Exceptional adhesion to concrete and steel
- Pre-catalysed
- Easily applied by brush or roller

### Appearance and finish

Transparent glossy

### Solids content

By Volume: 100%

### Packaging

MASTERSEAL<sup>®</sup> CP 150 comprises of Vinyl ester resin as base and pre-weighed catalysed as reactor unit. These components are supplied in 20.5kg units.

### \*Typical properties

Pot-Life	15 minutes @ 40°C
Bond to concrete	Concrete failure
Tensile Strength	86 MPa
Tensile Modulus	3.2 GPa
Flexural Strength	141 MPa
Flexural Modulus	3.5 GPa
% Elongation at break	6.5
Heat Deflection Temperature	105°C
Barcol Hardness	30

### Application procedure

#### Surface preparation:

##### General:

Surfaces must be clean and dry. Use suitable methods to remove dirt, dust, oil and all other forms of contamination that could interfere with the adhesion of the coating.

##### Concrete:

Concrete must be cured for 28 days. Mechanically surface profiling is the method of surface preparation. Mechanically profile the surface to CSP3 as described by the International Concrete Repair Institute. Voids and pinholes must be repaired.

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## Steel:

Prepare to SSPC-SP6. Surface profile 50-75 micron.

## Theoretical Thickness\*

Film thickness	WFT	DFT
MASTERSEAL <sup>®</sup> CP150	167 µm	150 µm

## Application Coverage

MASTERSEAL<sup>®</sup> CP150 0.174 kg/m<sup>2</sup>

**Note: The above application rate does not allow for wastage.**

## Chemical resistance

MASTERSEAL<sup>®</sup> CP 150 is resistant to the following typically encountered chemicals up to 100°C

- Acetic Acid, 25% concentration
- Aluminium Chloride, 100% concentration
- Aluminium Chlorohydroxide, 50% concentration
- Ammonium Thiocyanate, 20% concentration
- Barium Chloride, 100% concentration
- Benzene Sulfonic Acid, 30% concentration
- Carbon Monoxide Gas, 100% concentration
- Hydrochloric Acid, 15% concentration
- Lactic Acid, 100% concentration
- Mineral Spirits, 100% concentration
- Aviation hydraulic fuels (Skydrol)
- Motor Oil, 100% concentration
- Phosphoric Acid, 100% concentration
- Sea Water, 100% concentration
- Sulphuric Acid, 25% concentration
- Vinegar, 100% concentration
- Ammonium Hydroxide, 28% concentration (resistant up to 52°C)
- Urea (saturated solution), resistant up to 82°C
- Sodium Hypochlorite, 15% concentration (resistant up to 66°C)

## Equipment care

All equipment must be cleaned immediately after use with Styrene solvent. Similar cleaning procedures should be adopted for break periods exceeding 10 minutes duration.

## Storage and shelf-life

Store under cover out of direct sunlight and protect from extremes of temperature and fire hazard. In tropical climates the product must be stored in an air conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. Shelf life of MASTERSEAL<sup>®</sup> CP resins, hardeners and primers is three months at 20°C. Due to the limited shelf life of MASTERSEAL<sup>®</sup> CP resin BASF will not warranty shelf life and will not accept any material returns. Do not store at temperature higher than 32°C

For specific storage advices consult BASF's Technical Services Department.

## 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 immediate medical attention. Keep away from children & animals. Reseal containers after use. For further information, refer to material safety data sheet.



The Chemical Company

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## 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 products originating from BASF's Dubai, UAE 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 based on laboratory controlled tests.

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**As all BASF technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.**

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