

# MASTERSEAL<sup>®</sup> CP150 S

## High performance corrosion resistant vinyl ester coating

### Description

MASTERSEAL<sup>®</sup> CP 150 S is a non-toxic high performance vinyl ester corrosion resistant protective coating for application on concrete and steel substrates. In addition to excellent physical strength, impact and thermal shock resistance MASTERSEAL<sup>®</sup> CP 150 S 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 S can be used as a gas and vapour barrier coating or as a primer. Other usage areas include oil refineries, paper mills, power stations, garages, tanks, silos for storage, cement silos, 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
- Non-toxic when fully cured
- Easily applied by brush or roller

### Appearance and finish

Slightly glossy, colours available include Light Grey, Light Blue, Light Yellow, Pale Red and Light Green.

### Solids content

By Volume: 100%

### Packaging

MASTERSEAL<sup>®</sup> CP 150 S 20.5 kg unit (2 component).

### \*Typical properties (coating)

Pot-Life	15 minutes @ 25°C
Bond to concrete	Concrete failure - 3.0 MPa
Mixed density	1.15 Kg / L
Heat Deflection Temperature	105°C

### 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 CSP4 as described by the International Concrete Repair Institute.

##### Steel:

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

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## Application coverage

<b>2mm Corrosion Resistant Resin</b>		
<b>Total DFT (include Primer &amp; E Cloth):</b>		<b>2.3mm</b>
Primer	MASTERSEAL <sup>®</sup> CP 150	0.2kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	0.9kg/m <sup>2</sup>
Glass	E Cloth (300g/m <sup>2</sup> )	0.3kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	0.9kg/m <sup>2</sup>
Top coat	MASTERSEAL <sup>®</sup> CP 150 S	0.9kg/m <sup>2</sup>
<b>4mm resin thickness</b>		
<b>Total DFT (include Primer &amp; E Cloth):</b>		<b>4.4mm</b>
Primer	MASTERSEAL <sup>®</sup> CP 150	0.2kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.3kg/m <sup>2</sup>
Glass	E Cloth (300g/m <sup>2</sup> )	0.3kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.3kg/m <sup>2</sup>
Glass	E Cloth (300g/m <sup>2</sup> )	0.3kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.3kg/m <sup>2</sup>
Top coat	MASTERSEAL <sup>®</sup> CP 150 S	1.3kg/m <sup>2</sup>
<b>6mm resin thickness</b>		
<b>Total DFT (include Primer &amp; E Cloth):</b>		<b>6.5mm</b>
Primer	MASTERSEAL <sup>®</sup> CP 150	0.2kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.5kg/m <sup>2</sup>
Glass	E Cloth (300g/m <sup>2</sup> )	0.3kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.5kg/m <sup>2</sup>
Glass	E Cloth (300g/m <sup>2</sup> )	0.3kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.5kg/m <sup>2</sup>
Glass	E Cloth (300g/m <sup>2</sup> )	0.3kg/m <sup>2</sup>
Body coat	MASTERSEAL <sup>®</sup> CP 150 S	1.5kg/m <sup>2</sup>
Top coat	MASTERSEAL <sup>®</sup> CP 150 S	1.5kg/m <sup>2</sup>

**Note: The above application rates do not allow for wastage**

## 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.

## Chemical resistance

MASTERSEAL<sup>®</sup> CP 150 S 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, 36% concentration (52°C)
- Lactic Acid, 100% concentration
- Mineral Spirits, 100% concentration
- Aviation hydraulic fuels (Skydrol)
- Motor Oil, 100% concentration
- Phosphoric Acid, 100% concentration
- Sea Water, 100% concentration
- Sulfuric 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)
- Sodium Hydroxide, 50% concentration (93°C)

## 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 150 S resins, hardeners and primers is three months at 20°C. Due to the limited shelf life of MASTERSEAL<sup>®</sup> CP 150 S resin



The Chemical Company

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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.

## 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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**BASF Construction Chemicals UAE LLC**

P.O. Box 37127, Dubai, UAE

Tel: +971 4 8090800

Fax: +971 4 8851002

www.basf-cc.ae

