

# MasterProtect<sup>®</sup> 1812 (Formerly known as Masterseal SP120 PF)

**Amine-cured, pitch free epoxy**

## DESCRIPTION

A solvent-free, highly chemical resistant non-carcinogenic coating. In appearance, **MasterProtect 1812** is smooth and glossy.

## TYPICAL APPLICATIONS

**MasterProtect 1812** is used to provide a heavy duty protective, waterproof, and flexible coating. Widely used in the sewerage & waste water industry as well as other aggressive immersion conditions on cementitious & metal substrates. Uses include the lining of tanks, pipes and ducting, coating concrete, asbestos cement, steel pipes and non ferrous metals.

**MasterProtect 1812** is particularly suitable for use in sewerage work applications and in offshore or marine environments.

## FEATURES

- Excellent overall chemical resistance
- Excellent abrasion resistance & flexibility
- VOC compliant to EN norms
- High build coating
- Easy application: brush, roller, spray
- Economical
- Non-carcinogenic and non-toxic
- Seamless finish
- Eco-friendly coating
- Excellent corrosion protection
- Available in two colours to differentiate system build-up.

## PACKAGING

**MasterProtect 1812** is supplied in 27kg (18 litres) units.

## COLOURS

Light Grey and Black

## SOLIDS CONTENT

By Volume: 100%

## THEORETICAL COVERAGE RATE

### EXPOSURE CONDITIONS

Moderate	Total DFT	200-300µm
Primer	<b>MasterSeal P 659</b>	150-300g/m <sup>2</sup>
Skim Coat	<b>MasterBrace ADH 2200</b>	As required
Top Coat	<b>MasterProtect 1812</b>	180-255g/m <sup>2</sup>
Severe	Total DFT	325-500µm
Primer	<b>MasterSeal P 659</b>	150-300g/m <sup>2</sup>
Skim Coat	<b>MasterBrace ADH 2200</b>	As required
Body Coat	<b>MasterProtect 1812</b>	180-255g/m <sup>2</sup>
Top Coat	<b>MasterProtect 1812</b>	180-255g/m <sup>2</sup>
Immersion	Total DFT	450-650µm
Primer	<b>MasterSeal P 659</b>	150-300g/m <sup>2</sup>
Skim Coat	<b>MasterBrace ADH 2200</b>	As required
Body Coat 1	<b>MasterProtect 1812</b>	180-240g/m <sup>2</sup>
Body Coat 2	<b>MasterProtect 1812</b>	180-240g/m <sup>2</sup>
Top Coat	<b>MasterProtect 1812</b>	180-255g/m <sup>2</sup>

## VOC VALUES

18.25g/Lt

## DRY TEMPERATURE AND RESISTANCE

160°C

A loss of gloss and discolouration may be observed above 90°C.

## IMMERSION TEMPERATURE RESISTANCE

Immersion temperature resistance is dependant upon exposure. Please consult BASF Technical Service for specific information.

## LIMITATIONS

- Do not use in water immersion over 60°C
- Epoxies lose gloss, discolour and will chalk in direct sunlight exposure.



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## SURFACE AND SUBSTRATE PREPARATIONS

## 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 should be sound and sufficiently dry to accept **MasterProtect 1812**. 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.

## STEEL

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

## PRIMER

**MasterSeal P 659**

## PERFORMANCE DATA\*

Physical Characteristics				
Appearance	Black resinous thixotrope			
Mixed Density (kg/L) <b>ASTM D1475</b>	~ 1.5			
Tensile Strength at 7days <b>ASTM D 638</b>	21.04 MPa			
Elongation at break <b>ASTM D 638</b>	2.23%			
	Application Temperature			
	10°C	25°C	40°C	
Pot-life - <b>ASTM D 2471</b>	4 hrs	80 minutes	50 minutes	
Tack-free time - <b>ASTM C 679</b>	6 hrs and 30 minutes	4 hrs	1 hr and 40 minutes	
Touch-free time	13 hrs	8 hrs	4 hrs	
	Bond strength (7 days) <b>ASTM D 4541</b>			
	DFT 300 µm		DFT 500 µm	
	Concrete	Steel	Concrete	Steel
	3.00 MPa (Concrete failure)	4.35 MPa (Adhesive failure)	3.34 MPa (Concrete failure)	4.25 MPa (Adhesive failure)
Dry Heat Aging Test at 160°C continuous for 30 days (300µ) DFT	1.55 Mpa (Concrete failure)	4.59 Mpa (Adhesive failure)	1.79 MPa (Concrete failure)	4.61 Mpa (Adhesive failure)
Abrasion Test (CS17 wheel / 1000g / 1000 cycle) at 7 days <b>ASTM D 4060</b>	30 milligram		17 milligram	
Permeability Test at 5bars of pressure <b>BS EN 12390 Part 8: 2000</b>	negligible		negligible	

Test reports & additional documentation are available upon request.



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## APPLICATION

MasterProtect 1812 may be applied by airless spray, brush or roller. Please refer to our latest Method Statement for detailed application instructions.

## STORAGE

Up to 12 months when stored under cover, out of direct sunlight and protected from extremes of temperature.

## WATCHPOINT

No additions or omissions are required and on no account should attempts be made to split packs. Unsuitable in situations where foodstuffs or potable water will be in contact with the coating.

## HEALTH AND SAFETY

## CLEANUP

Use MasterTop THN 2 in case of spillage, absorb and dispose of in accordance with local applicable regulations.

## SAFETY

Read and follow all caution statements and on the MSDS for this product. Employ good workmanlike safety precautions. Wear protective clothing, gloves and eye protection.

## VENTILATION

When used as a tank lining or in enclosed areas through air circulation must be used during and after application until the application is cured. In addition to ensuring proper ventilation, appropriate respirators must be used by all application personnel. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal 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 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.

\* Properties listed are based on laboratory controlled tests.

® = Registered trademark of the BASF-Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this BASF publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by BASF either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not BASF, are responsible for carrying out procedures appropriate to a specific application.

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