



The Chemical Company

MASTERSEAL[®] SP120 PF

Chemically resistant protective epoxy coating

DESCRIPTION

Masterseal SP120 PF is a solvent-free, highly chemical resistant coating with a smooth and glossy appearance.

RECOMMENDED FOR

Masterseal SP120 PF is used to provide a heavy duty protective, waterproof, and flexible coating. Widely used in the sewerage and waste water industry as well as other aggressive immersion conditions on cementitious and metal substrates. Uses include the lining of tanks, pipes and ducting, coating concrete, fibre cement, steel pipes and non ferrous metals. **Masterseal SP120 PF** is particularly suitable for use in sewerage work applications and in offshore or marine environments.

FEATURES AND BENEFITS

- 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.

ESTIMATING DATA

Moderate	Total DFT	200-300 µ m
Primer	Masterseal P659*	150-300g/m ²
Top Coat	Masterseal SP120 PF	180-255g/m ²
Severe	Total DFT	325-500 µ m
Primer	Masterseal P659*	150-300g/m ²
Body Coat	Masterseal SP120 PF	180-255g/m ²
Top Coat	Masterseal SP120 PF	180-255g/m ²
Immersion	Total DFT	450-650 µ m
Primer	Masterseal P659*	150-300g/m ²
Body Coat 1	Masterseal SP120 PF	180-240g/m ²
Body Coat 2	Masterseal SP120 PF	180-240g/m ²
Top Coat	Masterseal SP120 PF	180-255g/m ²
VOC values : 18.25g/L		

* Primer depending on substrate type see further details in application guide

APPLICATION

Masterseal SP120 PF may be applied by airless spray, brush or roller. Please refer to our latest Method Statement for detailed application instructions.

SURFACE AND SUBSTRATE 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.

Steel

Prepare to SA 2.5.

Primer

Masterseal P659 or **Concresive 2525**. (see application guide for further details)

COLOUR

Masterseal SP120 PF comes in light grey and black.

PACKAGING

Masterseal SP120 PF is supplied in 14.6kg (10 Lt) units.

SHELF LIFE

Masterseal SP120 PF can be stored up to 12 months under cover, out of direct sunlight and protected from extreme temperatures.

PRECAUTIONS

Only full packs are to be used. 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.

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Construction Chemicals **Material Safety Data Sheet (MSDS)** from our office or our website.



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PERFORMANCE DATA

Physical Characteristics				
Appearance	Black resinous thixotropic liquid coating			
Mixed Density (kg/L) ASTM D1475	~ 1.46			
Tensile Strength at 7days ASTM D 638	21.04 MPa			
Elongation at break ASTM D 638	2.23%			
Application Temperature				
	10 °C	25 °C	40 °C	
Pot-life - ASTM D 2471	4 hrs	80 minutes	50 minutes	
Tack-free time - ASTM C 679	6 hrs and 30 min	4 hrs	1 hr and 40 min	
Touch-free time	13 hrs	8 hrs	4 hrs	
Bond strength (7 days) ASTM D 4541				
	DFT 300 μ m		DFT 500 μ m	
	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 (300 μ)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 ASTM D 4060	30 milligram		17 milligram	
Permeability Test at 5bars of pressure BS EN 12390 Part 8: 2000	negligible		negligible	
Limitations	<ul style="list-style-type: none"> - Do not use in water immersion over 60 °C. - Epoxies lose gloss, discolour and will chalk in direct sunlight exposure. 			

Test reports and additional documentation are available upon request.

H/MsealSP120PF/2/1110

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF Construction Chemicals** 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. **BASF Construction Chemicals data sheets are updated on a regular basis and it is the user's responsibility to obtain the most recent issue.**

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 Construction Chemicals**, are responsible for carrying out procedures appropriate to a specific application.

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