

MasterProtect® 1812

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, 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 for GCC markets. Available in 15kg units for export purposes only.

COLOURS

Light Grey and Black

SOLIDS CONTENT

By Volume: 100%

THEORETICAL COVERAGE RATE

EXPOSURE CONDITIONS

Moderate	Total DFT	200-300µm
Primer	MasterProtect P 659	150-300g/m ²
Skim Coat	MasterBrace ADH 2200	As required
Top Coat	MasterProtect 1812	180-255g/m ²
Severe	Total DFT	325-500µm
Primer	MasterProtect P 659	150-300g/m ²
Skim Coat	MasterBrace ADH 2200	As required
Body Coat	MasterProtect 1812	180-255g/m ²
Top Coat	MasterProtect 1812	180-255g/m ²
Immersion	Total DFT	450-650µm
Primer	MasterProtect P 659	150-300g/m ²
Skim Coat	MasterBrace ADH 2200	As required
Body Coat 1	MasterProtect 1812	180-240g/m ²
Body Coat 2	MasterProtect 1812	180-240g/m ²
Top Coat	MasterProtect 1812	180-255g/m ²
Abrasive	Total DFT	900-1200µm
Primer	MasterProtect P 659	150-300g/m ²
Skim Coat	MasterBrace ADH 2200	As required
Body Coat 1	MasterProtect 1812	250-312g/m ²
Body Coat 2	MasterProtect 1812	250-312g/m ²
Body Coat 3	MasterProtect 1812	250-312g/m ²
Body Coat 4	MasterProtect 1812	250-312g/m ²
Top Coat	MasterProtect 1812	180-250g/m ²

VOC VALUES

18.25g/litre

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.

PRIMER

MasterProtect P 659

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.

PERFORMANCE DATA*

Physical Characteristics	
Appearance	Black resinous thixotrope
Mixed Density ASTM D1475	approx. 1.5kg/L
Tensile Strength at 7days ASTM D638	23N/mm ²
	Application Temperature
	25°C
	40°C
Pot-life ASTM D2471	75 minutes
Tack-free time ASTM C679	55 minutes
Touch-free time	4 hrs
	1 hr and 40 minutes
Pull off strength (7 days) ASTM D4541	8 hrs
	4 hrs
Dry Heat Aging Test at 160°C continuous for 30 days (300µ) DFT	3N/mm ² (concrete failure)
Abrasion Test (CS17 wheel / 1000g / 1000 cycle) at 7 days ASTM D4060	>1.5N/mm ²
Depth of water penetration BS EN 12390 Part 8: 2000	<50mg
	Nil

Test reports & additional documentation are available upon request.

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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.

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STATEMENT OF RESPONSIBILITY

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NOTE

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