

MasterProtect[®] 1813

Amine-cured, pitch free epoxy

DESCRIPTION

A solvent-free, chemical resistant non-carcinogenic coating. In appearance, **MasterProtect 1813** is smooth and glossy.

TYPICAL APPLICATIONS

MasterProtect 1813 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 1813 is particularly suitable for use in sewerage work applications and in offshore or marine environments.

FEATURES

- Good chemical resistance
- Excellent abrasion resistance
- High build coating
- Easy application: brush, roller, spray
- Economical
- Non-carcinogenic and non-toxic
- Seamless finish
- Eco-friendly coating
- Excellent corrosion protection

PACKAGING

MasterProtect 1813 is supplied in 18 Liters.

COLOURS

Black

SOLIDS CONTENT

By Volume: 100%

THEORETICAL COVERAGE RATE

225g/m² – 300g/m² (150μ - 200μ DFT)

DRY TEMPERATURE RESISTANCE

A loss of gloss and discoloration may be observed above 80°C.

LIMITATIONS

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

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.

CONTENT

Concrete should be sound and sufficiently dry to accept **MasterProtect 1813**. Preferably having less than 5% surface moisture. 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.

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PERFORMANCE DATA

Physical Characteristics			
Appearance	Viscous coating		
Mixed Density (kg/L) ASTM D1475	~ 1.5		
	Application Temperature		
	10°C	25°C	40°C
Pot-life - ASTM D 2471	3.5 hrs	60 minutes	40 minutes
Tack-free time - ASTM C 679	7 hrs	5 hrs	2 hr
Touch-free time	13 hrs	9 hrs	5 hrs
Bond strength (7 days) ASTM D 4541 @ 150 µm DFT over concrete	1.90 MPa (Concrete failure)		
Water permeability BS EN 12390 Part 8: 2000 @ 5 bar pressure	Nil		
Abrasion Test (CS17 wheel / 1000g / 1000 cycle) at 7 days ASTM D 4060	33 milligram		

Test reports & additional documentation are available upon request.

APPLICATION

MasterProtect 1813 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 Thinner No.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.

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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local Master Builders Solutions representative.

Master Builders Solutions reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All Master Builders Solutions Products are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health and safety standards of ISO 9001 and Master Builders Solutions ESHQ recommendations.

* Properties listed are based on laboratory controlled tests.

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CONTACT

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Disclaimer:

In view of widely varying site conditions and fields of application of our products, this technical data sheet is meant to provide general application guidelines only. This information is based on our present knowledge and experience. The customer is not released from the obligation to conduct careful testing of suitability and possible application for the intended use. The customer is obliged to contact the technical help-line for fields of application not expressly stated in the technical data sheet under "Fields of Application". Use of the product beyond the fields of application as stated in the technical data sheet without previous consultation with Master Builders Solutions and possible resulting damages are in the sole responsibility of the customer.

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