

# MasterProtect<sup>®</sup> 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 application for exterior, below grade, back filling and between slab application.

## ADVANTAGES

- 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 AND COLORS

**MasterProtect 1813** is supplied in 27 kg (18 L) units and available in Black.

## SOLIDS CONTENT

By Volume: 100%

## THEORETICAL COVERAGE RATE

225 g/m<sup>2</sup> – 300 g/m<sup>2</sup> (150 μ – 200 μ DFT)

## DRY TEMPERATURE RESISTANCE

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

## LIMITATIONS

- Do not use in water immersion over 60°C
- Epoxies lose gloss, discolour 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.

## PLACING / APPLICATION

**MasterProtect 1813** may be applied by airless spray, brush or roller. Please refer to our latest Method Statement for detailed application instructions.

## CLEANING

Use a suitable thinner (Xylene / MEK / Acetone) in case of spillage, absorb and dispose of in accordance with local applicable regulations.

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## PERFORMANCE DATA\*

Physical Characteristics			
Appearance	Black resinous thixotrope		
Mixed Density (kg/L) <b>ASTM D1475</b>	~ 1.5		
	Application Temperature		
	10°C	25°C	40°C
Pot-life - <b>ASTM D 2471</b>	3.5 h	60 min	40 min
Tack-free time - <b>ASTM C 679</b>	7 h	5 h	2 h
Touch-free time	13 h	9 h	5 h
<b>Bond strength (7 days) ASTM D4541 @ 150 µm DFT over concrete</b>	1.90 MPa (Concrete failure)		
<b>Water permeability BS EN 12390 Part 8: 2000 @ 5 bar pressure</b>	Nil		
<b>Abrasion Test (CS17 wheel / 1000g / 1000 cycle) at 7 days ASTM D 4060</b>	33 milligrams		

Test reports & additional documentation are available upon request.

## WATCHPOINTS

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.

## STORAGE AND SHELF LIFE

Shelf life is 12 months when stored under cover, out of direct sunlight and protected from extremes of temperature.

## HEALTH AND 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.

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.

## QUALITY AND CARE

All products originating from Master Builders Solutions 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 and ISO 14001.

\* Properties listed are based on laboratory controlled tests.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions 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

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