

MasterProtect[®] 1820

Phenol Novolac Epoxy Amine Cured High Build Coating

DESCRIPTION

Highly cross-linked 100% solids epoxy coating with exceptional chemical resistance. Widely used as a coating, anti-slip system or as a GRP / FRP lining system to protect concrete & steel in the sewage and waste water treatment and petrochemical industry.

RECOMMENDED USES

MasterProtect 1820 is used for the internal protection of concrete or metal tanks containing aggressive chemicals, oils, acids, solvents and alkalis.

FEATURES AND BENEFITS

- **High gloss ultra dense finish** -Excellent resistance to acids, caustics, and hydro carbons
- **Excellent abrasion resistance** - Suitable for exposure to abrasive environments or maintenance foot traffic
- **Temperature resistant** - to 60°C in immersion conditions and 90°C in the dry environment. Can be reinforced where exposure conditions dictate

PROPERTIES

Chemical resistance

MasterProtect 1820 is resistant to intermittent spillages of the following typically encountered chemicals:

• Sulfuric Acid	98% (Concentrated)
• Hydrochloric Acid	36% (Concentrated)
• Phosphoric Acid	85.5% (Concentrated)
• Sodium Hydroxide	50% solution
• Nitric Acid	10%
• Ethanol	96%
• Ethylene Glycol	
• Chlorinated water	1000ppm
• Crude Oil	
• Sodium Chloride	50% solution
• Potassium Hydroxide	50% solution

Volume Solids	100%
VOC	Nil
Mixed density at 25°C :	1.173g/cm ³
Pot life	
• 25 °C	13 minutes
• 40 °C	7 minutes
Recoat Interval	
• 25 °C	60 – 180 minutes
• 40 °C	35 – 80 minutes
Initial cure	24 hours @ 25°C
Final cure	7 days @ 25°C
Bond to concrete:	>1.5 MPa
Abrasion Resistance ASTM D4060 CS17	70mg/1000 cycles

Colours: Grey and Black

APPLICATION

Preparation:

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 with a suitable MasterEmaco repair mortar.

Steel

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

Primer

MasterProtect P1801

See application guide for full application details



We create chemistry

MasterProtect[®] 1820

ESTIMATING DATA

Using two coats of 500ml per meter per coat one kit will cover approximately 4.69 square meters at 1mm thickness. Builds ups from 0.8mm DFT to 1.5mm DFT

PACKAGING

MasterProtect 1820 is supplied in 4 litre (4.69kg) units.

SHELF LIFE

MasterProtect 1820 has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall.

PRECAUTIONS

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 Material Safety Data Sheet (MSDS) from our office or our website.

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STATEMENT OF RESPONSIBILITY

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PT BASF Indonesia

DBS Bank Tower 27th Floor

Ciputra World 1 Jakarta

Jl. Prof. Dr. Satrio Kav. 3-5

Jakarta 12940

Phone: +6221 29886000

Website: www.master-builders-solutions.basf.co.id