

Product Data Sheet

PROTECTOLAST VMBC30

Corrosion Protection and/or Repairing of Wet or Dry Steel/Concrete

“One” Component Compound

Fast Curing

Commercially Adaptable

Bridging and Waterproofing

No Tools, Standard Cartridge





Protectolast VMBC30

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Protectolast VMBC30 is the perfect solution for long term corrosion protection of steel/concrete assets while application must be performed in a wet or dry environment. Protectolast VMBC30 consists of a patent pending 1 component compound which forms a molecular bridge between Protectolast VMBC30 and the wet steel and can be combined with any Protectolast VMBC30 currently on the market. Protectolast VMBC30 is compliant with ISO 21809-3:2016 and NACE SP0109-2019. The adhesion principle and the shapeless nature of Protectolast VMBC30 provide for a non-shielding coating system. When/if both products are combined, ISO 21809-3: Chapter 18 Liquid PU or Chapter 18E, Solid Cast PU can be used.

General information

Protectolast VMBC30 is a unique viscous-elastic solution for the protection of shaped and non-shaped substrates. Protectolast VMBC30 offers the pipeline industry an unrivaled technology when it comes to corrosion prevention. Unlike other coatings Protectolast VMBC30 always has a permanent and intimate contact with the surface of a substrate.

The viscosity and elasticity modulus of the material are designed in such a way that the viscosity modulus provides permanent wetting characteristics hence bonding on molecular level while forming an entire shapeless and tensionless continuous coating. The elasticity modulus provides stability of coating thickness at all clock positions and no sagging effects.

Use and application

- Temperature range -45 °C/-49 °F to +95 °C/203 °F*
- Surface preparation minimum SSPC/SP-
- 2 Application in wet environment (wet surface, under dew point, off shore, underwater etc)



Features

- Glass transition onset temperature -65 °C, -85 °F
- Non-shielding
- No sagging, even thickness at all clock positions
- CD value: 0mm (ISO21809:3:2016)at+23 °C/+73,4 °F
- Self-healing in case of small damages
- Impervious to moisture and gases
- Permanent wetting characteristics
- Transitions seamlessly on most other coatings such as coal tar, PU, PE, PP, tape coatings, FBE, bitumen, etc.
- No curing time, ready for backfill immediately
- High chemical resistance
- No sensitivity to salts and osmosis
- 100% inert synthetic formulation: no ageing over time.

Typical performance values of Protectolast VMBC30

Properties	DE250	DE250 reinforced	DM250	DM250 reinforced
Hardness	>Shore D50	>Shore D70	Shore A50	Shore A50
Curing time at 30 C, 1 mm thickness for non-reinforced	<30 minutes, fully cured in 2 hours	Tack free 15 minutes (Shore D40), fully cured in 2 hours	Tack free in 60 minutes, fully cured in 12 hours	Tack free in 30 minutes, fully cured in 6 hours
Elongation, 1 mm thickness	<10%	<10%	> 300%	<20%
Tensile strength	> 4 N/mm	> 8 N/mm	> 1 N/mm	> 8 N/mm
Impact strength per mm	> 3 N/mm	> 10 N/mm	> 5 N/mm	> 10 N/mm
Indentation at room and Tmax (95 C), 1 mm	> 10 N/mm ²	>10 N/mm ²	> 1 N/mm ² > 1 N/mm ²	> 10 N/mm ² > 1 N/mm ²
Temperature range	-50-95 C	-50 to 95 C	-50-70 C	-50 to 70 C
Heat ageing 28 days at Tmax ISO 21809-3	T28/T0 > 0.7 95 C	T28/T0 > 0.7 95 C	T28/T0 >0.7 70 C	T28/T0 > 0.7 70 C
Hot water immersion ISO 21809-3	T28/T0 >0.7 95 C	T28/T0 > 0.7 95 C	T28/T0 > 0.7 70 C	T28/T0 > 0.7 70 C