TECHNICAL DATA SHEET

BULLET ROOF® DPM PRIMER

SPECIAL 2 COMPONENT FAST CURE EPOXY BASED PRIMER FOR DAMP/MOIST SUBSTRATES.

This unique product enables damp, moist and green concrete to be primed at surface temperatures of +5 degrees and rising saving large amounts of down time. It cures rapidly to from a DPM or damp proof membrane. The product is virtually VOC free and water based meaning it can be used internally and in confined areas without the danger of being overcome by the fumes that are associated with traditional priming products. Bullet Roof DPM primer is resistant to negative/back pressure immediately upon application even before a full cure is achieved! Once fully cured it will resist up to 10 bar negative/back pressure.
Bullet Roof DPM primer is an excellent substrate sealer that will create a waterproof and damp proof layer. It can be overcoated with most waterproofing and tanking systems. Quartz sand can be broadcast whilst the product is wet to provide additional key in preparation for further liquid waterproofing/tanking product layers. Quick cure times allow for the overcoating of Bullet Roof DPM primer in the same day saving further down time. Bullet Roof DPM primer can be used effectively with self-levelling mortars, screeds and concrete, and allows them to be waterproofed/tanked in much quicker times than previously possible. Green and damp surfaces can be easily encapsulated without negatively affecting the cure time or performance, and without needing to wait for full cure or for the substrate to fully dry.

Features

- VOC close to “0” and water based
- Gains structural adhesion on both compact, close grained or porous construction materials, even if humid and not completely cured concrete (green concrete)
- Forms an effective barrier against negative/back pressure through the substrate.
- Forms a damp-proof layer.
- Forms a water proof layer.
- Allows for application onto existing damp substrates.
- Speeds up project down time
- Excellent substrate sealer
- Compatible with most liquid waterproofing/ damp proofing/tanking coating systems.
- Cures perfectly at temperatures close to +5 °C and very high R.H
- The fast curing time at temperatures close to 20 °C allows for overcoating on the same day.
- Once fully cured it resists up to 10 bar negative/back pressure.
- Application on surface/substrate at temperatures from +5 °C to +30 °C
- Operating temperatures from -35 °C a + 110 °C

Application

Bullet Roof DPM primer is a 2 component product which must be mixed prior to use. Mix thoroughly with a low speed mechanical mixer. Bullet Roof DPM primer can be applied by roller, brush or trowel, and can also be sprayed. DPM primer can be diluted 10-30% with water. See Bullet Roof DPM user guide for detailed information regarding mixing and application guidance.
Consumption rate are 300-500 g/m2 per coat. Areas of greater porosity should receive additional coats. Our recommendation is 2 coats to achieve optimum sealing of the substrate. All standing water must be removed before applying DPM primer. DPM primer cannot be applied through standing water. Prior to application, surfaces should be sound, clean and free from contaminants with a traction resistance to pull off tests >1,5 MPa. New substrates/surfaces should be prepared to remove any laitance etc. Defects should be repaired that could impede the bond or performance of Bullet Roof DPM primer. Salt deposits/formations/crystals must be removed prior to installing Bullet Roof DPM primer. Be careful to avoid conditions that allow condensation to form on the surface before the DPM primer has had time to harden/cure. All equipment can be cleaned with water after use.

Technical Data

Colour	Dark grey
Specific Weight	1.70 ± 0.03 Kg/l
Mixing Ratio	100 parts by weight of base 100 parts by weight of hardener
Pot life at 25°C	45 ± 7 minutes
Hardening 22°C, 50% U.R.	1-dry to the touch 2-insensitive to water 3-over-application 4-fully hardened 1=2 hours 2=3 hours 3-=4 hours 4=15 days
Thickness	300 micron per 700 g/m2
Permeability to carbon dioxide EN 1062-6	Sd > 50 m
Water vapor permeability EN 7783-2	Sd < 5 m
Capillary absorption, water permeability EN 1062-3	W< 0,1 kg/m2 x h0·5
Compatibility with humid concrete EN 13578	No swelling, no cracking, no spalling. > 3,5 MPa Bullet Roof DPM Primer 1, 2, 3 Technical data sheet 01/2019
Adhesion to concrete UNI EN 1542	> 3,0 MPa or breakage of concrete
Storage	Product can be kept in its original, sealed packaging in a dry and protected environment in temperatures between +5°C and +35°C for 12 months.