BULLET
BUILDING PRODUCTS FOR PROFESSIONALS

BULLET ROOF® MONO

TECHNICAL DATA SHEET

CE
EN 1504-2

Description

The ultimate waterproofing solution.
Single pack, no mixing. No thickening agents or catalyst required. Mono is perfect straight out of the tin.
This advanced formulation based on polyurethane technology is thick enough to be applied on vertical slopes without slumping yet wets out the Bullet mat 100 glass reinforcement effortlessly. Bullet Roof Mono is U.V stable and does not require additional UV protection coats. It is unaffected by standing or ponding water. Mono can be applied with or without full reinforcement dependent performance/specification requirements and can achieve life expectancies of up to 25 years.

ACHIEVED HIGHEST FIRE RATING AVAILABLE IN EUROPE - Broof t4 (Once cured)

The Bullet Roof Mono System incorporates and utilises advanced primers and super tough top coats. When used in conjunction with our primers and top coats it is to install onto almost any surface including damp/green concrete! The Bullet Roof System can be used to waterproof car parks and high traffic areas such as balconies and walkways.

Key Features

- Moisture cured allowing application in most weather conditions
- Cold Applied liquid, not requiring the use of heat or naked flames. Fire risks associated with traditional flat roof works are eliminated.
- Excellent adhesion to almost any surface
- Completely seamless. No joints, laps or seams.
- Completely flexible and tolerant of normal structural movements.
- Water vapour permeable
- Achieved BROOF T4 fire rating. Highest available in Europe.
- Special primers allow for application onto damp/green concrete (Bullet Roof DPM Primer)
- Special primers allow for overcoating in times from 10 minutes (Bullet Roof Quick Prime)
- Special primers allow for treatment and overcoating oxidised/rusted surfaces (Bullet Roof Epoxy Primer AC)
- Addition of super tough top coat allows for heavy foot traffic and vehicle traffic (Bullet Roof Mono Top)
- Addition of super tough Top coat allows for life expectancies up to 35 years!

Key Applications

- Flat Roofs – New construction. Warm & Cold (approved plywood & OSB 3, Concrete, approved insulation board etc)
- Flat Roof – Overlaying existing coverings (Asphalt, Mineral Felt, GRP, Single ply, GRP etc)
- Podium Decks
- Bridge Decks
- Balconies
- Green Roofs
- Gutters (All Types)
- Cut edge corrosion
- Asbestos encapsulation
- Pitched sheet roof overlay/encapsulation (metal, plastisol coated metal, asbestos, fibre cement etc)

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Application

1) PRODUCT PREPARATION
1-component product ready to use after mixing carefully with mixer at low r.p.m.
At this stage the product can be thinned with 5-10% by weight of Bullet Roof Thinners or can be added with an accelerator (as to decrease curing time).

2)SUPPORT PREPARATION
Substrates to be treated must be sound, clean and free from contaminations.
Bullet Roof Mono adheres directly on concrete (with normal porosity). Bullet Roof Quickprime can be applied to improve adhesion on substrates with low porosity.

A similar preparation must be used also on tiles, ceramics, marble, etc. On sprayed polyurethane or on old roofing felt,100 g/m2 of QuickPrime must be previously applied (overcoating time from 60 minutes to 4 hours).

3) PRODUCT APPLICATION
Bullet Roof Mono can be applied by brush, squeegee, roller or airless spray (pressure 130-150 bar and nozzle 0,031"-0,035"). Roller application is necessary for reinforced systems.

Non reinforced system: apply two coats of product, with a consumption of 0,6-0,8 Kg/m2 for the first layer and 0,6-0,9 Kg/m2 for the second. (over-application time from 6 to 48 hours maximum) If the substrate is horizontal or slightly sloping, the maximum amount of product which can be applied without reinforcement is 0,800 Kg/m2 per layer.

Reinforced system: use geotextile reinforcement and impregnate it with two layers of 0,700 -1,000 Kg/m2 each. After minimum 24 hours and not later than 48 hours, a protective coloured coating can be applied on the waterproofing layer:

Technical Data

Color	Grey
Specific weight **UNI EN ISO 2811-1**	1,50 ± 0,03 g/ml
Viscosity at 20°C **UNI EN ISO 2555**	25.000 ± 5.000 mPa .s
Solid content **EN ISO 3251**	74±1% by volume

Theoretical consumption	2.000 -2500 g/m^2
Thickness	1000-1250 µm
Curing at 22°C, **50% R.H.**	- dry to the touch 6-8 hours - insensitive to rain 6 hours - over-application 24 hours - completely cured 10 days
Permeability to carbon dioxide **EN 1062-6**	Sd > 50 m
Permeability to water vapour **EN ISO 7783-2**	Sd < 5 m
Capillary absorption and permeability to water **EN ISO 1062-3**	< 0,1 kg/$m^2 \cdot h^{0.5}$
Adhesion to concrete (traction) **EN 1542**	> 1,5 MPa
Tensile strength **UNI EN 12311-2**	> 6 M Pa
Elongation at failure **UNI EN 12311-2**	> 600 %
Shore A Hardness **EN ISO 868**	70
Storage	12 months from date of production if stored properly in original, unopened sealed pack- aging, in a dry place at temperatures between +5°C and +35°C.
Certifications	BROOF T4