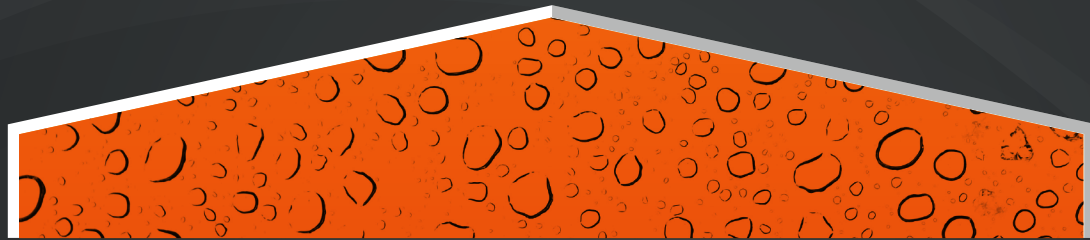


BULLET ROOF MONO
SPECIFIER GUIDE



BULLET



ROOF[®]

MONO

- ✓ *ONE SYSTEM*
- ✓ *ONE SOLUTION*
- ✓ *MULTIPLE APPLICATIONS*

Bullet Roof Mono

LIQUID RUBBER SYSTEM

Mono is a thick single pack polyurethane overlay system that can be used with or without reinforcement for a wide range of applications. Due to the excellent adhesion, flexible and rubber like qualities of the cured system it can be used to refurbish existing roof membranes and coverings without the need to fully strip them away. Mono can be used too refurbish and extend the life of existing roof coverings by up to 25 years depending on your requirements or those of your client.

Mono is a high performance, vapour permeable, resilient and tough water barrier with excellent UV stability and the ability to accommodate normal surface movements such as the expansion and contraction caused by fluctuations in temperature throughout the seasons.

The Mono System allows for projects to be carried out virtually all year round due to its moisture and cold temperature tolerances. Mono is particularly useful on complex and detailed areas as it can be moulded and laid to suit any shape or profile. Valley gutters, box gutters, metal sheets and extraction units are easily accommodated. As many applications do not require the existing covering to be stripped, Mono is a speedy installation by comparison to other, more traditional water proofing systems.

The excellent primers within the range allow for speedy over coating, in times from 10 minutes in some cases. When refurbishing metal roofs our anti-corrosion primer ensures rust and oxidisation does not return.

Bullet Roof mono is a high performance waterproofing system and is installed by a network of approved installers to ensure the project is correctly executed.

Mono is available with Guarantees ranging from 10- 25 years depending on the required longevity and specification requested.

KEY APPLICATIONS

- Flat roof - New construction (approved plywood, OSB 3, concrete, approved insulation board etc)
- Flat Roof -Overlay of existing coverings (Asphalt, Mineral felt, Single ply, GRP etc)
- Podium Decks
- Balconies
- Green Roofs
- Gutters (All types)
- Cut edge corrosion
- Asbestos encapsulation
- Pitched sheeted Roof overlay (Metal, Plastisol coated metal, Asbestos/fibre cement etc)

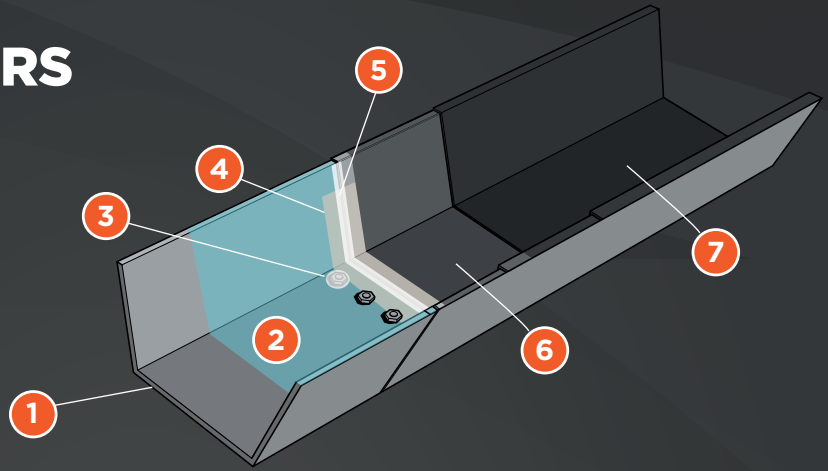
KEY FEATURES

- Moisture cured allowing application in most weather conditions and climates.
- 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 laps, joints or seams.
- Completely flexible and tolerant of normal structural movement.



Bullet Roof Mono INDUSTRIAL GUTTERS

Being totally seamless, highly flexible and impervious to standing water, Bullet Roof Mono easily forms a long lasting permanent solution for re-lining or refurbishing gutters. Our anti corrosion primer eliminates the risk of the reoccurrence of rust and oxidisation giving peace of mind that the mono system will last for decades as intended.



1 Steel Box Gutter

3 MM/MS Hybrid gun applied over bolt heads

5 Local Reinforcement (Bullet Mat at 100mm width encapsulated with Mono resin)

2 Epoxy Primer AC

4 De-bonding tape to cover lap joint (allow for expansion)

6 First Coat of Mono

7 Second Coat of Mono

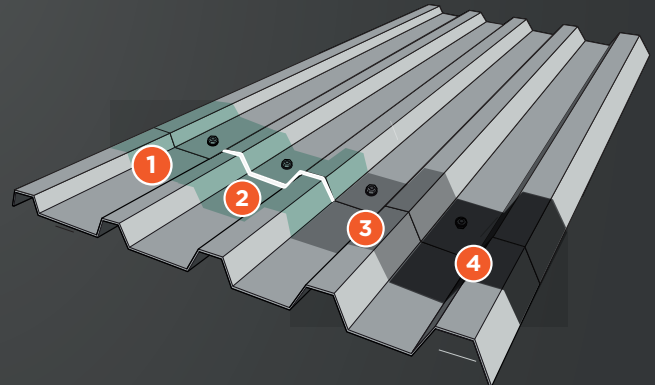
Bullet Roof Mono CUT EDGE CORROSION & PITCHED ROOF SHEETS

Due to the thixotropy of Mono it can be applied onto pitched, even vertical surfaces. This means it can be applied thickly without running or slumping.

The lifespan of pitched roof sheets can be greatly improved without the need to remove them by seamlessly encapsulating them with Mono.

Cut edge corrosion is a common problem on metal profiled roof sheets. This is easily addressed and corrosion halted using our anti-corrosion primer and Mono. Asbestos Sheets can be encapsulated, preventing the need for them to be removed by a specialist contractor and then disposed of at great expense to the client/landlord.

Contact our technical team with your enquiry so we can give the appropriate specification for your project.

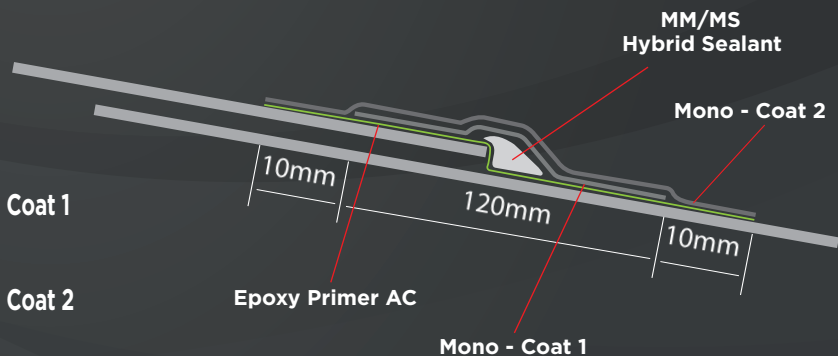


1 Epoxy Primer AC

3 Bullet Roof Mono Coat 1

2 MM/MS Hybrid Sealant

4 Bullet Roof Mono Coat 2

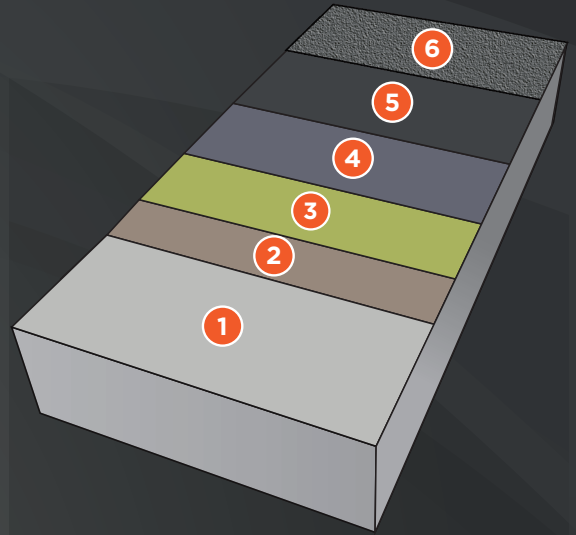


Bullet Roof Mono

FLAT ROOF OVERLAY APPLICATION

When an existing flat roof is in sound structural condition and sufficiently insulated, but the existing roof covering is approaching the end of its serviceable life or failing, the Bullet Roof Mono System can be applied directly over the top of the existing membrane. This method of overlaying can save valuable labour time and create less of an impact on the tenant using the building/property. Often stripping a roof creates safety issues and the possibility of water entering the property whilst the building is open to the elements. Overlaying with Mono negates the need to strip and avoids the problems associated with more traditional methods. Additionally, heat torches, gas boilers and naked flames are not required in the installation process, making the project safer from the associated risks. Mono is fully adhered, completely seamless and either locally or fully reinforced dependant on the specification requirements of the project. Podium decks and balconies can be waterproofed in the same way with the addition of our Mono T Glaze, a fully aliphatic, transparent, tough protection coat and decorative aggregate. Alternatively various paving and decking support pad solutions can be utilised to provide a surface for regular foot traffic. Mono is available with a full range of trims, edges, outlets, roof drains, roof vents, roof lights and paving accessories. Walkways and demarcations can be installed and made non slip with a variety of decorative aggregates and finishes for use in balcony applications.

Due to the wide variety of existing membranes including felt, asphalt, GRP, EPDM and single ply membranes, we recommend that you contact Bullet Technical services so the correct solution is specified for your project.



1 Underlying Roof Build-Up

3 Primer (Adhesion Tests Required)

5 Mono second coat

2 Existing roof covering/membrane

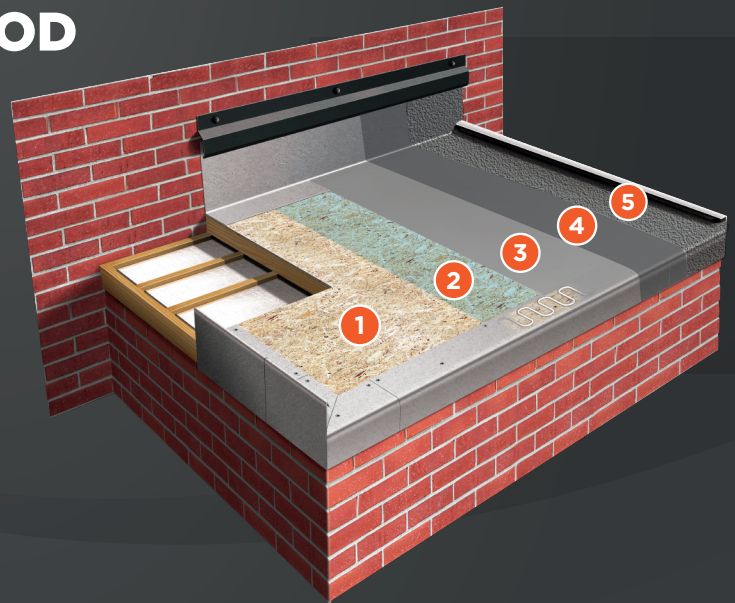
4 Mono base coat

6 Mono T glaze and non slip aggregate (optional for high foot traffic areas)

Bullet Roof Mono

FLAT ROOFS: NEW OSB 3 & BULLET APPROVED PLYWOOD

New timber deck roofs are easily waterproofed using the Bullet Roof Mono System. Thanks to Bullet Roof Quick Prime the timber can be primed and ready to overlay in times from just 10 minutes. New OSB 3 T&G boards receive a bead of MM/MS Hybrid Sealant, gun applied into the groove of each board as the new boards are laid and mechanically fixed. As the boards are pressed together the excess mastic is tooled flat. The boards are now fully bonded and the deck does not require the introduction of a reinforcement layer. Being able to apply Mono in one thick seamless coat and without reinforcement speeds up installation and reduces labour costs. Timber sheets without T&G must be reinforced along the joints using Bullet 100 reinforcement mat. Mono is available with a full range of trims and flat roof accessories.



1 OSB 3/Bullet Approved Plywood

3 Bullet Roof Mono (& Bullet Mat 100 Glass Reinforcement - optional dependant on specification requirements)

2 Bullet Roof Quick Prime

4 Bullet Roof Mono (Second Coat)

5 Mono T Glaze and non slip aggregate (optional for high foot traffic areas)

DIRECT OVERLAYS OVER EXISTING STRUCTURE

Please ensure that all roofs, podiums, gutters etc that are to be overlaid on top of existing construction have been structurally inspected prior to the installation of the Mono system as it is crucial to the longevity of the new membrane that the structure is sound and does not require remedial works. It is imperative to establish that the existing construction of the building complies with the latest relevant regulations and codes. Thermal upgrades can be specified by our technical team and included within the specification should the need be identified beforehand.

SUBSTRATES

Mono can be applied to almost all commonly used construction materials including asphalt, felt, steel, plastisol sheets, asbestos sheets, lead, copper, timber, concrete and a wide variety of ply membranes.

Due to this wide range of substrates, the level of preparation and type of primer as well as the rate of consumption will vary. Adhesion tests are always required on single ply membrane overlays.

FALLS & DRAINAGE

British Standards recommendations for flat roofs is a minimum fall of 1 in 80. Always seek the most up to date regulations and codes from the relevant authority.

Advice on roof drainage can be found in Code of Practice BS 6367. It is important to note that standing water has no detrimental affect on the Mono System when existing falls and drainage cannot be addressed because of physical or financial/budget restraints. The Mono system can be dressed into and incorporate most types of standard rainwater outlets.

ROOF DETAILING

Upstands, protrusions and stanchions are easily and seamlessly dressed and incorporated into the liquid applied Mono system. British Standard guidelines advise that a minimum upstand of 150mm is required on all waterproofing details.

MANUFACTURERS GUARANTEE

10-25 year guarantees are available subject to specification. Guarantees can only be offered by our approved installer network of contractors.

DURABILITY

Up to 25 years dependent upon the system specified.

FIRE TESTING

The Mono system is classified as BROOF(t4) which is the highest possible European fire rating for roofs. This means that the system will enable a roof to be unrestricted under the Building Regulations.

WIND UPLIFT

Mono is a fully bonded system. Resistance to wind up lift is adequate to meet the National Building Regulations requirements.



www.bulletbuildingproducts.co.uk