



DESMOPOL APPLICATION GUIDE

DESMOPOL FULLY REINFORCED Wet-on-wet system

Desmopol is a high elastomeric waterproofing membrane for flat roofs, walkways, balconies and a perfect solution for waterproofing complicated roofs with detailed work.

Desmopol can be applied to most substrates without the need of a primer such as Bitumen, Torch-on felts, OSB, single ply, asphalt or on warm roofs, over PIR boards.

When the substrate is not totally smooth, it is recommended to use Desmopol fully reinforced with Tecnoband Matting on a wet-on-wet system with the following steps detailed below:

Desmopol is applied to the prepared substrate first. Whilst wet, reinforce by "dry rolling" the matting into the product until it is fully embedded. Apply more Desmopol (to a minimum of 1.8kg/m²) ensuring the matting is fully encapsulated, with no dry areas or pinholes. Joints on matting must be overlapped by at least 50mm. The matting must be fully saturated with no dry areas or pinholes.

1 Check you have all necessary materials and always use Solvent resistant rollers.

2 Inspect the roof and carry the necessary repairs, before applying Desmopol.

3 Open the Desmopol drum and stir the contents at a slow speed until all components are fully mixed. If you are not applying the drum totally, it is recommended to stir regularly.

**Desmothix to be added to achieve the desired consistency up to 1Lt per 25kg drum.

4 Apply Desmopol fully reinforced to the upstands, outlets, penetrations and any other detail work.

5 Apply Desmopol fully reinforced on a wet-on-wet system to the main area.

6 Inspect the roof for any dry areas or pinholes.

7 Once main waterproofing layer is dry, tecnotop topcoat, or antiskid coatings can be applied.



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WHICH APPLICATION METHOD SHALL I USE?

FULLY REINFORCED	ACCELERATED	OTHERS
Single ply Overlay	Balconies	Asbestos
Plywood/OSB	*Concrete	Metals
Warm roof over PIR	*Asphalt	Swimming pools
Inverted roof	Walkways	Potable water tanks
Green roof		Transparent-Desmopol T
Torch on felt overlay		Heavy Traffic Tecnotop 3000
Asphalt		

* Apply only accelerated system if the surface is flat and smooth with no splits, blisters or cracks.
 For full Application guides visit www.eagle-insulations.com

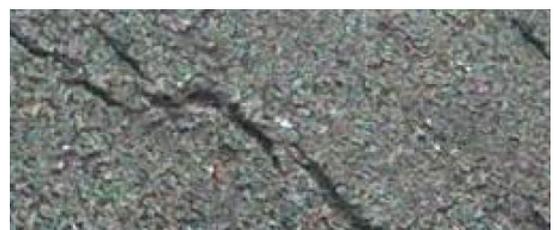
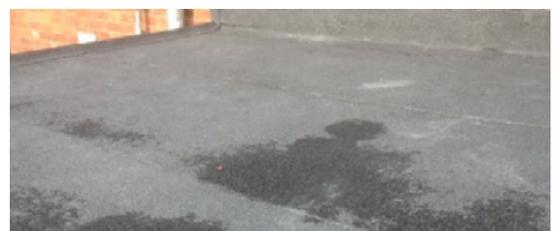
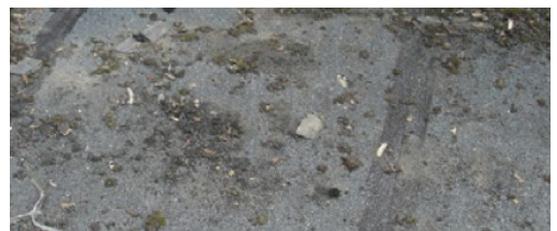
Substrate Preparation

Inspect existing substrate, brush any loose chippings and remove them. Repair any bubbles or blisters, small cracks and damaged areas which can be repaired with Tecnoband reinforcing mat embedded in a coat of Desmopol membrane.

Existing areas must be clean, dry and free from any contaminants such as oil, grease and dust. Thoroughly clean by power washing and allow to dry. Treat all moss/vegetation with wash treatment. Remove all drain covers and clean outlets before applying the liquid coating.

Blisters are to be flattened, any damaged areas removed and significant cracks filled using a polyurethane based mastic.

AVOID the use of silicone based mastics as they are not compatible. In the presence of roof repair coatings on the roof, check compatibility with Desmopol before applying the product.



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OVER OSB

For new roofs or when overboarding is necessary, we recommend using 18mm OSB3 in line with standard roofing practice. Before laying the deck ensure the joists are of sound condition, and ensure the boards are securely fixed.

When attaching the deck, ensure all nail heads finish flush with the surface of the deck. Any flat roofing trim can be used, however we recommend to use Eagle GRP trims. Mechanically fix all trims to the timber decking ensuring the face is vertical to the fascia.



Detail Work

Penetrations through the roof are a typical source of water ingress. They are difficult to waterproof satisfactorily in traditional roll preformed materials, but can easily be formed around such details with Tecnoband reinforcing mat, again ensuring the matting is fully embedded in Desmopol.

INTERNAL OUTLETS

With any internal outlets, apply the system into the pipe itself, ensuring that the junction between the waterproofing and the outlet pipe is encapsulated. This will ensure that if the outlet backs up, water cannot creep under the existing waterproofing and into the building.

PERIMETER, UPSTANDS AND DETAIL WORK

Before coating the main area, apply Desmopol to perimeter upstands and dry roll the Tecnoband matting (until the



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Desmopol is drawn through), then apply another coat of Desmopol ensuring the matting is fully embedded, on a wet-on-wet system until the matting is fully covered and no pinholes or dry areas are visible.

Desmopol is self terminating if the brickwork is in good condition, strike a line with tape and coat up to it, no lead flashing is required. A termination bar similar flashing is required if the brickwork is in poor condition.

Applying the Desmopol Membrane

Once all upstands and detail work is finished apply Desmopol to the whole area of the roof by applying Desmopol fully reinforced on a wet on wet system Products to be installed at 1.8kg per sqm evenly to achieve a minimum thickness of 1.5mm.

Tecnoband matting must be overlapped 50mm.

On completion, inspect for any pinholes or dry areas and apply another thin layer if required. Drying time 2-6 hours (depending on temperature and humidity). **Fully trafficable in 24 hrs.**

Desmopol is resistant to rain as soon as the matting is fully encapsulated.

Application temperature range 0°C and rising to 30°C.

Should you require a further site visit or more information, please contact the Eagle Technical Department on 07880 230253.

Tecnotop 2C – Topcoat Application

The use of Tecnotop 2C is recommended to increase UV stability, for trafficable areas or to achieve longer guarantee.

Tecnotop comes in two parts 4.3Lts + 0.7Lts drums which must be mixed completely and applied at a ratio of 6-1 and yield 150grs per sqm in one layer, to cover around 25sqm per pack.

Tecnotop 2C must be applied no later than 48 hours after Desmopol was applied and on a clean and dry surface.

Tecnotop 2C has a pot life of 2 hours and drying time once applied, of 2 hours. For carparks and high traffic areas 2 layers of Tecnotop 2C must be applied.

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Balconies, Walkways and Anti-slip Surfaces

To achieve the desired surface, we have 3 options which need to be considered depending on the level of traffic and aesthetic required.

Tecnoplastic must be mixed with the mixed Tecnotop 2C and applied with a roller onto Desmopol.

Silica sand to be broadcasted onto the Tecnotop to cover completely the area. Allow the Tecnotop to dry and brush the loose sand. For a stronger bonding it is recommended to give an additional coat of Tecnotop 2C over the silica sand, once the first layer is completely dry.

Mineral slate granules to be broadcasted onto the Tecnotop to completely cover the area. Allow the Tecnotop to dry and brush the loose granules. For a stronger bonding or higher gloss finish it is recommended to give an additional coat of Desmopol T clear coating, over the slate granules, once the first layer is completely dry.



Repairs to Desmopol

Desmopol has great toughness and resistance, however alterations on the roof may cause damage to a Desmopol roof, but the system can be repaired very easily. It must be cleaned and gently sanded to slightly open the pore. Desmopol can be applied directly on top of the existing coat by repeating the same application method described in this guide.

Desmopol in Vertical Surfaces – Desmothix

When Desmopol needs to be applied to vertical surfaces, Desmothix liquid will be used to facilitate application. Desmothix liquid will provide Thixotropic properties to Desmopol which will allow it to be applied easily without runs and drops.

Desmothix liquid comes in 1Lt tins and can be mixed up to 1Lt per 25Kg of Desmopol. Usually adding 300ml per 25kg drum is enough to reach the desired consistency.