



DESMOPOL APPLICATION GUIDE

ACCELERATED DESMOPOL Balcony & Walkway 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 Flat Roof PIR boards.

For balconies, walkways and in general any area that requires quick trafficable access, Accelerated Desmopol is the best solution.

- 1** Check you have all necessary materials and always use Solvent resistant rollers.
- 2** Inspect the area to be coated and carry the necessary repairs, before applying Desmopol.
- 3** Open the Desmopol drum and mix the Desmoplus (110ml per ltr of Desmopol). Stir the contents at slow speed for 2 minutes until all components are fully mixed. Once the accelerator is mixed you have 20-30 minutes pot life.
- 4** Apply accelerated Desmopol fully reinforced to the upstands, outlets, penetrations and any other detail work.
- 5** Apply Accelerated Desmopol to the main area.
- 6** Inspect the roof for any pinholes.
- 7** Once the main waterproofing layer is dry, Tecnotop topcoat, or antiskid coatings can be applied.



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Substrate Preparation

Inspect the 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.



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.

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ACCELERATING DESMPOL

When first opening Desmpol tins, the product must be stirred thoroughly ensuring any settlement at the bottom is mixed in.

Desmoplus Accelerator is then added at the exact ratio of 110ml (Desmoplus Accelerator) per litre of Desmpol (or 2ltr/25kg tin or 500ml/6kg tin of Desmpol) and mixed at a slow speed to avoid air entrapment/bubbles. Make sure the Desmoplus Accelerator and Desmpol are thoroughly mixed together before applying (should take a couple of minutes).



DESMOPLUS ACCELERATOR CHART

DESMPOL QUANTITY FULL TINS	DESMPOL QUANTITY IN LTRS	DESMOPLUS ACCELERATOR IN LTRS
25kg drums		2Lts - full tin
6kg drums		Full small tin
	5Lts	550ml
	4Lts	440ml
	3Lts	330ml
	2Lts	220ml
	1Lt	110ml

***Mix thoroughly on slow speed to ensure Desmoplus Accelerator is mixed with Desmpol completely**

PLEASE NOTE:

You have approximately 20-30 minutes working time for mixed product. Please only mix what you think you will use in this time, ie detail work it is best to mix a couple of litres at a time until you get familiar with the working time. Once applied, the Desmpol will be touch dry in 30-40 minutes.

PERIMETER, UPSTANDS AND DETAIL WORK

Before coating the main area, apply accelerated Desmpol to perimeter upstands and dry roll the Tecnoband matting (until the Desmpol is drawn through), then apply another coat of Desmpol ensuring the matting is fully embedded,

Ensure the matting is fully covered and no pinholes or dry areas are visible.

Desmpol 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.

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Applying the Desmopol Membrane

Once all upstands and detail work is finished apply Desmopol to the whole area of the roof by applying accelerated Desmopol in 1 layer using a roller. Desmopol is self-levelling, do not overwork the product, it is easier to work out the coverage for the mixed tin, pour and spread by roller. Product to be installed at 1.8kg/m² evenly or a thickness of 1.4mm minimum .

Any big variation in levels should be reinforced to make sure the product is not applied too thin on raised areas (big variations in thicknesses will cause weak spots on any thin areas).

On completion, inspect for any pinholes and apply another thin layer if required. Drying time 1-2 hours (depending on temperature and humidity). Application temperature range -5 °C to 35°C.

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

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

Tecnotop 2C – Topcoat Application

The use of Tecnotop 2C is recommended to increase UV stability, for trafficable areas or to achieve a 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 has a pot life of 2 hours and drying time once applied, of 2 hours. For car parks 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 completely cover the area. Allow the Tecnotop to dry and brush the loose sand. For 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 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, 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.