
PRODUCT DATA SHEET

Water Based ClimoPlate™ - WB Roof Paint Top Coat

Description:

Biosymph's Water Based ClimoPlate™ - WB has been designed to meet the needs of the future. This product is an aqueous APEO (Alkylphenol ethoxylates) AND FORMALDEHYDE FREE Acrylate copolymer bitumen modified compound, used for flexible interior/exterior coatings.

This coating has an UV curable and cross linkable component which is initiated when the film surface is exposed to sunlight/UV, thus increasing the durability and performance to offer excellent colour fast and long-lasting UV stability. This cross-linking feature will also act as a self-repairing (self-healing) mechanism making this product ideal as a roof membrane and coating.

This coating has good anti-carbonation properties and offers excellent adhesion to a wide range of substrates making it ideal as a roof coating with very good dirt resistance, while allowing water vapour permeability.

ClimoPlate™ - WB will provide a strong, durable long-lasting and effective finish. Its remarkable flexibility ensures durability and resilience and boasts fast drying properties. It offers anticorrosive properties which provide further protection against environmental degradation. Moreover, its water washup feature adds convenience to the application process.

ClimoPlate™ - WB has been specifically but not exclusively formulated to act as a topcoat over bitumen-based sealers such as Biosymph's GilsoFlex™ and FlexsoTar™ products. The chemistry used in this coating maximises performance with excellent durability. This product is non-toxic and can safely be used in applications where it comes into contact with drinkable water, animals and children.

Agitation during application is recommended to ensure the best finish and consistency. This paint should be thoroughly mixed before application. Agitation during use may also be required as with all paints and coatings. *It is not recommended that any solvents, water or additives be added to this product. It can, however, be thinned with our Alcohol blend thinner to a maximum of 5% if required.*

ClimoPlate™ -WB roof paint is a versatile paint with remarkable flexibility that ensures durability and resilience. It boasts fast drying properties and offers excellent adhesion to a wide range of substrates and can be used in a wide range of applications:

- **As a Top Coat over GilsoFlex™ or FlexsoTar™:** *ClimoPlate™ -WB is specifically developed to be compatible over such bitumen-based sealers and paints.*
- On Galvanised / Corrugated Iron / Metal Roofs
- On Concrete tile roofs
- On Timber and Plywood
- TPO, TPE, Torch on, Bitumen Membranes
- ACM (Asbestos) encapsulation system (Please contact us for more information)

- Internal Gutters and Valleys
- Trafficable (Please contact us for more information)
- On other timber and metal structures and substrates

Benefits:

- Excellent film integrity and colour to (80 °C)
- The fully dried paint allows for cleaning with typical household cleaners, without affecting the finish
- Lower VOC emissions
- UV Stable
- Long lasting

Physical Properties:

PRODUCT SPECIFICATIONS:

Solid content, weight % : 62 ± 1

Minimum Viscosity at 30°C: Brookfield RVT, 2 /20, Ps : 2 – 10

pH (1:1 with water) : 5.5 – 7

FILM PROPERTIES:

Appearance : Satin finish, available in different colours (Titania, Gull Grey, Grey Friars, Charcoal, Ebony (Some custom colours available)

Surface : Excellent flexibility

OTHER PROPERTIES:

Fast drying, Excellent adhesion to a wide range of substrates for interior/exterior environments.

Physical State:	viscous water based Paint, available in various colours
Odour:	sweet Acrylic resin odour
Solubility:	soluble in water (thinning and clean-up)
Boiling point:	initial 100°C
Specific Gravity:	less than 1.4
Dry Schedule film (Touch Dry):	21 °C /60 minutes.
Full Cure:	10-14 days
Drinking Water Safe:	After 10 days curing and initial rinse (rain/hose/pressure)
Toxicity:	None
Volume solids:	50% average
Shelf Life:	24 Months
Hazard:	Non-hazardous, no labelling required
Theoretical Coverage Rate:	2-3 sq metres per litre depending on application thickness
Application:	brush, roller or airless spray 525 or 527 tip
Recoat if required:	4 to 6 hrs
Number of coats:	2 (application dependant)
Bleed blocking:	To achieve bleed blocking, apply 1 coat and allow 48 hour cure to encapsulate any potential bleed though.

Surface Preparation:

Substrate surfaces should be free from dirt, grease, moss, lichen and should be dry before applying ClimoPlate™ - WB roof paint. Biosymph Ltd recommends a high pressure water wash before application.

Application:

ClimoPlate™ - WB roof paint is easy to use and can be applied using airless spray equipment, brush or roller. A suitable thinner can be used to a maximum of 5% when spraying. If required, we can provide a compatible spraying thinner.

Guide:

Airless Tip Size: 525 - 527

Airless Gun Filter: 30 Mesh, Airless Manifold Filter: 30 Mesh

Clean up: Generally, water clean-up will suffice. Ensure you flush your airless with gunwash at the end of each day.

Indicated film thickness: 320 microns (WFT), 198 microns (DFT) per coat,

Application: Apply 2 coats minimum

Clean up:

Clean hands with plenty of soap and water to remove any ClimoPlate™ - WB. It is recommended to use disposable gloves during application.

Safety:

This product contains bitumen and/or other chemical ingredients. Adequate health and safety precautions should be observed during all storage and use. Please refer to this product's MSDS for complete safety information (available on our website).

Limitations:

The technical data and suggestions for use in this product data sheet are currently correct to the best of our knowledge, but are subject to change without notice. Because application and conditions vary and are beyond our control, we are not responsible for results obtained in using this product, even when used as suggested. The user should conduct tests to determine the suitability of the product for the intended use. Our liability (including liability for breach of warranty, strict liability in tort, negligence or otherwise) is limited exclusively to replacement of the product or refund of its price. Under no circumstance are we liable for incidental and consequential damages.

For more information or if you have any questions regarding special applications and require further advice, please do not hesitate to give us a call.

biosymph TM Paints and Products		
Pierre van Vuuren – Managing Director Email: Admin@biosymph.co.nz Phone: Mobile-022 607 6400 After hours-(07) 829 8606 www.biosymph.co.nz		
 Timber Stain & Preserver	 100% NZ KEEPING IT NEW	 Gilsolite Roof Sealer & Paint