

RW431

ALPHAGUARD BIO BASE COAT

KEY BENEFITS SUMMARY

- Bio Content
 - High bio content makes product sustainable and environmentally friendly
- Catalysed Cure
 - Results in faster cure times than similar one-component products
- Versatile
 - Suitable for use over many substrates/ roof types
- High Solids
 - 100% solids
- Low VOC
 - Low odour
- Chemical Resistant
 - Resistant to a wide variety of harmful chemicals

PRODUCT INFORMATION

Description

RW431 is a fully reinforced, two-component, polyurethane liquid applied membrane with exceptional low odour properties.

Usage / Purpose

The AlphaGuard BIO Base Coat provides a robust waterproofing layer and can be used in a variety of refurbishment and new construction projects.

Packaging

Part A - 17.52kg Container
 Part B - 2.66kg Container

Colour

Silver Grey (RAL 7001)

Availability

Direct from Tremco CPG UK Limited (see bottom of leaflet for address and telephone details).

Protective Equipment

USE IN WELL VENTILATED CONDITIONS and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Preparation

- Clean the substrate with a high pressure power wash of at least 13.5 MPa.
- Prior to application the surface must be clean, dry, solid, and free of dirt, grease, oil, algae and any other contaminants that would be detrimental to an acceptable bond being achieved.
- If RW431 is being used over an existing roof system, all appropriate repairs should be made before applying the AlphaGuard BIO system.
- Allow suggested cure time of repairs before applying RW431 to the roof surface.

Mixing

- Use a heavy duty power drill with Jiffy Mixer attachment. Cordless drills are not recommended and may not properly mix the materials.

- Mix Part A for 2 minute before adding Part B.
- After adding Part B mix the combined materials for a minimum of 2 minutes moving the mixing blade from top to bottom.
- Make sure to mix areas around side walls and bottom of pail. Improper mixing will result in non-curing material. Never fully invert empty pails in attempt to drain material - will result in non-curing material.
- Do not break down kits into smaller quantities –MIX ENTIRE KIT.

Application Instructions

- RW431 is applied by sheep skin roller.
- Consumption 1.6kg/m² in 2 layers
- Apply first coat at 0.8kg/m²
- In the wet coating, bed in RW490 225g Reinforcement and apply a second layer of RW431 wet-on-wet at 0.8kg/m². Ensure an overlap of at least 50mm in any direction.
- Allow to cure, once fully cured apply RW451 BIO Top Coat.

Acceptable Roof Surfaces Bituminous Roof Systems

- RW431 can be used over aged asphalt based roof products. When using over felt roof systems, repair any blisters and degraded felts.

Concrete

- RW431 can be used directly over concrete with the appropriate primer. Any cracks should be repaired before coating is applied. Allow new concrete to fully cure for a minimum of 28 days (a concrete dryness test should be performed before application).

Single Ply Systems

- RW431 can be used over select single ply systems, when used with the appropriate primer.

Modified Bitumen Systems

- RW431 can be used over MB roof systems when used with the appropriate primer.

Cleaning

Before the product cures, clean surfaces and equipment with isopropyl alcohol.

Please Note

- Do not apply when ambient temperatures are below 7°C
- Do not apply when overnight temperature drops below 4°C
- Do not apply directly to plywood, tongue and groove decks, wood decks, poured in place gypsum, lightweight insulating concrete decks, structural lightweight concrete and cementitious wood fibre decks.
- Not for use over coal tar pitch, gravel BUR, corrugated metal roof systems, and silicone-based coatings and sealants.

Health & Safety Precautions

Safety data sheet must be read and understood before use.

Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty

Tremco CPG UK Limited products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Limited written instructions and (b) in any application recommended by Tremco CPG UK Limited, but which is proved to be defective, will be replaced free of charge.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

TECHNICAL DATA

PROPERTY	RESULT
Composition	Two-part, bio-based, polyurethane
Tensile Strength (ASTM D412)	9.7 MPa
Water Vapour Transmission (ASTM E96)	0.13 metric perms
Low Temperature Flexibility (ASTM D522)	Pass at -31.7°C (12.7 mm mandrel bend)
Tear Strength (ASTM D5147)	140 kg
Water Absorption (ASTM D471)	0.008
Indentation Hardness (ASTM D2240)	72 Shore A
Dimensional Stability (ASTM D5147)	< 0.1%
Volume Solids (ASTM D 2697)	100%
Weight Solids (ASTM D 1644)	100%
Viscosity (ASTM D 2196)	2,500 - 5,500 cp (mPas)
Pot Life (25°C/50% RH)	20 - 25 minutes Temperature dependent - Increasing temperature reduces expected pot-life
Skin Time (25°C/50% RH)	3 - 4 hours
Over-Coat Time (25°C/50% RH)	6 - 7 hours
Coverage	1.6kg/m ² in 2 layers
Storage	Store in dry shaded conditions between +15°C and +25°C and low humidity. Do not store in direct sunlight.
Shelf Life	12 months when stored as recommended in original unopened packaging