Technical Data Sheet

RW531

ALPHAGUARD PUMA WP

TREMCO Lasting Performance

KEY BENEFITS SUMMARY

- Highly elastic membrane based on unique PUMA technology
- Excellent crack bridging performance
- 100% waterproof
- Very fast curing; 30 minutes at +15°C
- Highest resistance at extremely low and high temperatures (in accordance with ETAG 005)
- Possibility to apply at very low temperatures (0°C)
- High vapour permeability

PRODUCT INFORMATION

Description

RW531 is a two part, highly elastic, fully reinforced, polyurethane modified, methyl methacrylate liquid applied membrane.

Usage / Purpose

RW531 is ideal for the repair, renovation and waterproofing of roof systems.

NOTE: The pot life after mixing the RW531 with Catalyst is 10 to 15 minutes depending on the ambient temperature and the amount of Catalyst used.

Packaging

RW531 PUMA WP: 25kg & 13kg

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.

Surface Preparation

- The area to be waterproofed must be dry, clean, free from contamination and free of dirt, grease, oil and other elements which could prevent good adhesion to the substrate.
- A smooth, level surface is required to ensure the consistent application of a minimum 2 mm dry film thickness of RW531.
- Metal parts should be rust free and thoroughly prepared.
- Bubbles and imperfections should be repaired according to good roof practice.

Priming

- Typically no primer needed on asphalt, PVC and most bitumen felt. If in doubt, please contact Tremco CPG UK Limited's Technical Services.
- For concrete, metal and ceramic substrates, use RW512 Concrete Primer before application of RW531. To wood substrates, apply TremVap Carrier Membrane prior to the application of RW531.

Mixing

- Prior to use, RW531 must be carefully stirred to achieve a uniform distribution of the paraffin contained in the product.
- Ensure the product is mixed using a suitable non-sparking/ATEX mixer.
- RW531 is then thoroughly mixed together with the Catalyst (50% dibenzoyl peroxide).
- The amount of catalyst powder to be added depends upon the temperature.
- For all detailing work, use RW535 PUMA WP Quick Flash. Refer to seperate RW535 technical data sheet.

Dosage Chart

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

TEMPERATURE	WEIGHT % (GRAMS PER 25KG)
30°C	1% (250g)
20°C	1.4% (350g)
10°C	2.8% (700g)
0°C	4% (1000g)

Application Instructions

- RW531 is applied using a rake, roller, or rubber squeegee.
- Consumption: 2.8 kg/m² for the 2 layers.
- Apply initial layer at 1.4 kg/m² RW531.
- In the wet coating, bed in RW535 165g Reinforcement Frabic and apply a second layer wet on wet of 1.4 kg/m² RW531 PUMA WP. Ensure an overlap of at least 50 mm of each fleece strip.
- Allow to cure, once fully cured apply RW551 Coloured Top Coat.

TREMCO Construction Products Group

Tremco CPG UK Limited
Coupland Road, Hindley Green
Wigan WN2 4HT
+44 (0) 1942 251400
roofing.uk@tremcocpg.com

Cleaning
Clean tools immediately after use with RW593 Cleaner.

Health & Safety Precautions
Safety data sheet must be read and understood before use.
Highly flammable - keep away from open flames and other ignition sources.
Empty containers that have fully cured product residues can be considered as non-hazardous waste. Uncured product must be disposed of responsibly in accordance with local or national health and safety regulations. Please refer to the specific Tremco safety data sheet for further guidance.

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* (Liquid State)
Composition	Based on polyurethane modified methacrylates
Viscosity	300-460 mPa:s
Tensile Strength	Not Aged: 10.72 MPa After 200 Days 80°C Heat: 11.04 MPa After 1000 MJ/M2 UV-Radiation: 8.07 MPa
Elongation %	Not Aged: 283 After 200 Days 80°C Heat: 263 After 1000 MJ/M2 UV-Radiation: 225
E-modulus ISO 527	Not Aged: 23.7 MPa After 200 Days 80°C Heat: 26.3 MPa After 1000 MJ/M2 UV-Radiation: 33.7 MPa
Density	1.36 g/ml
Solids	100%
Consumption	2.8 kg/m² in 2 layers to obtain 2 mm
Pot Life (15°C to 20°C)	± 15 minutes
Cure Time (15°C, 50% RH)	± 30 minutes
Rain Resistant	± 20 minutes
Application Temperature	from 0°C to +30°C
Storage	Store between +15°C and +20°C
Shelf Life	12 months when stored as recommended in original unopened containers

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TECHNICAL CHARACTERISTICS (Cured State) RW531 has been approved for use in all the listed conditions as certified by DIBT, Berlin. European Technical Approval ETA-05/0208					
USAGE CATAGORY	ETAG-005 CLASSIFICATION	CONDITIONS			
Climatic Zones	Moderate & Severe	Moderate Climate < 5 GJ/m² - annual radiant exposure on horizontal surface < 22°C average temperature of the warmest month per year			
		Severe Climate > 5 GJ/m² - annual radiant exposure on horizontal surface > 22°C average temperature of the warmest month per year			
Minimum Surface Temperature	TL4	Climatic Zone Extreme low temperature		- 30°C	
Maximum Surface Temperature	TH4	Climatic Zone Severe high temperature		+ 90°C	
Imposed Loads	P1 to P4	*CATEGORY*	*USER LOAD*	*EXAMPLE OF ACCESSIBILITY*	
		P1	Low	Non-accessible	
		P2	Moderate	Accessible for maintenance of the roofing only	
		P3	Normal	Accessible for maintenance of plant & equipment and to pedestrian traffic	
		P4	Special	Roof garden, inverted roofs, green roofs	
Roof Slope	S1 to S4	Slope			
		S1 < 5%	S2 5% to 10%	S3 10% to 30%	S4 > 30%

PHYSICAL PROPERTIES	*NOT AGED*	*AFTER 200 DAYS 80 °C HEAT*	*AFTER 1000 MJ/M² UV-RADIATION*
E-modulus ISO 527	23.7 MPa	26.3 MPa	33.7 MPa
Tensile strength	10.72 MPa	11.04 MPa	8.07 MPa
Elongation %	283	263	225

Tremco CPG UK - A Company approved to:

RW531_TDS_V7_180424

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Coupland Road, Hindley Green
Wigan WN2 4HT
+44 (0) 1942 251400
roofing.uk@tremcocpg.com

Find Us @

www.tremco-europe.com