Technical Data Sheet

RW535

ALPHAGUARD PUMA WP QUICK FLASH

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
- Ideal for vertical detailing

PRODUCT INFORMATION

Description

RW535 is a two part heavy duty waterproofing system based on polyurethane modified methyl methacrylate.

Usage / Purpose

RW535 is used in conjunction with RW591 to provide a flexible, waterproof membrane for vertical upstand details.
NOTE: The pot life after mixing the RW535 with RW591 Catalyst is 10-15 minutes depending on the ambient temperature and the amount of RW591 Catalyst used.

Packaging

RW5315 PUMA WP Quick Flash: 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 RW535.
- 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, most bitumen felt, and glass. If in doubt, please contact Tremco CPG UK Limited's technical services on 01942 251 400
- For concrete, metal and ceramic substrates use RW512 Concrete Primer before application of RW531. To wood substrates, apply TremVao Carrier Membrane prior application of RW531.

Mixing

- Prior to use, RW535 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.
- RW535 is then thoroughly mixed together with the RW591 Catalyst (50% dibenzoyl peroxide).
- The amount of catalyst powder to be added depends upon the temperature.

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

- RW535 is applied using a sheep skin roller
- Consumption: 2.8 kg/m² for the 2 layers.
- Apply initial layer at 1.4 kg/m² RW535.
- In the wet coating, bed in RW535 165g Reinforcement Fabric and apply a second layer wet on wet of 1.4 lg/m² RW535 PUMA WP Ensure an overlap of at least 50 mm of each fleece strip. RW535 should lap a minimum 100 mm onto the field area.
- Allow to cure, once fully cured apply RW531 PUMA WP to field area.

Cleaning

Clean tools immediately after use with RW593 Cleaner.

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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.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and and deemed accurate at the time of issue.

Tremco CPG UK Limited 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
Tensile Strength	6.7 MPa
Elongation	282%
E-Modulus ISO 527	65 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 +25°C
Shelf Life	12 months when stored as recommended in original unopened containers

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TECHNICAL CHARACTERISTICS (Cured State) RW535 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 Construction Products Group

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