

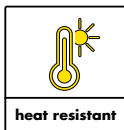
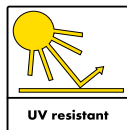
Roofrite AC5

Highly efficient, energy-saving flexible coating

Water-based pure acrylic resin providing efficient thermal protection for the entire structure

CHARACTERISTICS

- ▶ Durable & provides high degree heat insulation properties
- ▶ Very high emittance & reflectance properties
- ▶ Excellent dirt pick-up resistance over longer period of time
- ▶ Reduced thermal conductance and heat gain thereby by increasing energy efficiency
- ▶ Outstanding adhesion over a variety of substrates
- ▶ Waterproofing & resistance to blistering
- ▶ Low VOC & non-toxic
- ▶ UV protection
- ▶ Washable



DESCRIPTION

Roofrite AC5 is a water-based pure acrylic, washable and environmental friendly coating, forming a seamless membrane that resists to several harsh chemicals and bridges hairline cracks. Due to its white color, it has high emittance and reflectance, which will reduce heat penetration, keeping roofs much cooler in hot summer weather.

FIELDS OF APPLICATION

- industrial roofs
- metal roofs
- non accessible roofs

APPLICATION INSTRUCTIONS

The application temperature should be between 5°C to 45°C. application procedures may vary slightly depending upon site conditions, the general recommended guidelines for the application of the waterproofing system is as follows:

Surface preparation

All the surfaces must be cleaned and made free of dust, dirt, moss, oil, grease and other loose particles.

Priming

a priming coat is recommended to seal the pores and stabilize the surface. The primer coat can be produced on site by diluting Polytherm AC 1 to 1 with water. Apply the primer coat @ 5m²/L and allow to dry.



1. Substrate
2. Polyseal 1PU
3. Polybit CL 252
4. Polytherm AC

Mixing

Polytherm AC is a single component product but mix the contents of the pail thoroughly prior to application to remove any sediment. A slow speed drill and suitable paddle mixer shall be used to avoid the formation of air bubbles.

Application

Once stirred, Polytherm AC should be immediately applied either by brush, roller or industrial sprayer. It is recommended that coating be applied in a minimum of two coats. Should not be applied if relative humidity exceeds 95%. Each subsequent coat shall be applied only after the previous coat dries off completely. After application the coating must be back rolled to reduce surface irregularities and improve bonding.

Overlapping & Other Area's Detailing

Recommended to reinforce all overlaps of metal sheets, corners, gutters and pipe penetrations etc., with Polybit CL 252 sealing strip. Overlaps of metal sheets and other all penetrations should be sealed with Polyseal 1PU prior to the application of Polybit CL 252. The sealing strip shall be embedded into the first coat whilst it is still wet and covered fully with the second coat.

COVERAGE

0.8L/m²/coat for 500μ DFT.[minimum recommended thickness is 1mm DFT and can be achieved in two coats.]

STORAGE & SHELF LIFE

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air - conditioned environment (<25°C). The shelf life is up to 12 months in unopened conditions if stored as per the recommendations.

HEALTH & SAFETY

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately

SUPPLY

	Packing	Unit
Polytherm AC	20L	Pail
CL 252	100mm x 50m	Roll
Polyseal 1PU	600ml	Sausage

TECHNICAL SPECIFICATION - SYSTEM

PROPERTIES	VALUES	TEST STANDARDS
Colour	White	-
Density, g/cc	1.3±0.05	ASTM D 1475
Solid content, [%]	63±2	ASTM D1644, D2396
Tensile strength, [N/mm ²]	1.5	ASTM D 2370
Elongation, %	>300	ASTM D 2370
Tear resistance, [lbf/in]	>80	ASTM D 624
Adhesion (Dry) Steel, [pli]	> 2	ASTM C 794, ASTM D 903
Water vapor transmission, [g/(h*m ²)]	<2	ASTM E 96
Solar Reflectivity, %	>80	ASTM C 1549
Water Swelling resistance, [%]	<8	ASTM D 471
Re-coat interval, [hrs]	6	ASTM D 1640
VOC, [g/L]	≤50	ASTM D 3960/ASTM D 2369

All values given are subject to 5-20% variation

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

