PRODUCT DATA SHEET

RC-260

Water-based Acrylic Waterproofing Coating (One-component, Exterior Grade)

DESCRIPTION

RC260 is a high-performance one-component water-based acrylic waterproofing coating, formulated with premium acrylic copolymer emulsion, high-purity fillers (barium sulfate, calcium carbonate), titanium dioxide, and multifunctional additives. It forms a seamless, elastic, and weather-resistant waterproof film with excellent UV resistance, adhesion, and light reflection. As an eco-friendly water-based product, it complies with international environmental standards and is ideal for exterior waterproofing applications requiring low VOC and safe construction.

USES

Exterior walls, roofs, and balconies of industrial & civil buildings.
Color steel roof waterproofing and renovation.
Concrete structures, masonry surfaces, and metal substrates.
Waterproofing for terraces, canopies, and outdoor structures

FEATURES

- Low VOC, non-toxic, no harmful fumes.
- IExcellent UV stability and heat resistance (90 no change) for long-term exterior exposure.
- High elongation (269%) adapts to substrate deformation and thermal expansion.
- Bonds firmly to concrete, metal, and masonry without primer .
- Brush, roller, or airless spray; no open flame required, safe and efficient.
- Stable performance from -30 to 90, no cracking in cold.

CERTIFICATES AND TEST REPORTS

- CE & REACH compliant
- AS/NZS 4654 (for Australia/New Zealand market)
- Tested by ILAC_ accredited laboratories
- Waterproofing MembranesISO 21930-Environmental Product Declaration (EPD) compliant

PRODUCT INFORMATION

Item	Specification
Type	One-component water-based acrylic emulsion
Appearance	White liquid
Package	20 kg / Plastic drum
Reference Dosage	2.3 – 2.5 kg/m² per 1mm dry film thickness
Construction Temperature	5 – 35 (RH ≤85%)
Shelf Life	12 months (sealed original packaging)
Storage Conditions	Cool, dry, ventilated; 5 – 35; avoid direct sunlight, freezing, and stacking over 5 layers
Application Method	High-pressure airless spray, roller, or brush

TECHNICAL DATA

Property	Standard Value	Test Result	Test Method
Solid Content (%)	≥65	67	ASTM D2369
Tensile Strength (MPa)	≥1.5	1.8	ASTM D412
Elongation at Break (%)	≥150	269	ASTM D412
Low Temperature Flexibility	-30, No crack	Pass	ASTM D1970
Heat Resistance (90, 2h)	No change	Pass	ASTM D16401
Watertightness (0.3MPa, 30min)	No leakage	Pass	EN 1928
Bonding Strength (MPa)	≥1.0	≥1.2	ASTM D4541
VOC Content (g/L)	≤30	≤25	EN 13984
Artificial Weathering Resistance	1000h, No cracking	Pass	ASTM G154

BASIS OF PRODUCT DATA

All technical data is obtained from standard laboratory tests under controlled conditions (23±2, 50±5%RH). Actual performance may vary due to substrate condition, temperature, humidity, and construction methods.

LOCAL RESTRICTIONS

Complies with EU CE (EN 13984), US EPA VOC standards, and AS/NZS 4654 for AUS market. For specific national/regional regulations, refer to the local product data sheet.

ECOLOGY, HEALTH AND SAFETY

RC260 is an eco-friendly water-based coating with low VOC (≤25g/L), compliant with EU REACH standards and free of harmful SVHC substances. It is non-flammable, emitting no toxic fumes during construction. Wear protective gloves and goggles to avoid skin/eye contact; rinse with plenty of water if contact occurs. Dispose of waste and packaging in line with local environmental regulations.

LEGAL NOTES

All information in this data sheet is for professional reference only. CANLON assumes no liability for loss or damage caused by improper storage, transportation, construction, or misuse. Users must verify suitability for their specific project and comply with local building codes.

INSTALLATION METHOD

Substrate Preparation

Ensure the substrate is flat, solid, clean, and free of dust, oil stains, rust, loose particles, and standing water. Reinforce loose fasteners, polish rusted areas, and apply a suitable primer for severely corroded color steel roofs or porous concrete surfaces.

Detail Reinforcement

Focus on critical areas such as corners, expansion joints, pipe penetrations, and overlaps. Embed reinforced polyester cloth into the wet coating to ensure full impregnation, smooth placement, and no wrinkles, enhancing waterproof reliability at weak points.

Coating Application

Stir the coating thoroughly before use (do not add water). Apply 2 – 3 thin coats, each approximately 0.5mm thick. Allow the previous coat to fully dry (12 – 24 hours, depending on temperature/ humidity) before applying the next. Apply each coat perpendicularly to the previous one for uniform coverage and no missed areas.

Construction Precautions

Do not construct in rainy, snowy, or windy (Level 5+) conditions. Avoid applying thick coats at once to prevent cracking or slow curing. Seal the drum tightly after opening to prevent contamination or drying.

Quality Inspection

After full curing, check the finished film for uniform color, no sand holes, gaps, peeling, or lumps. Ensure seamless coverage and firm adhesion to the substrate.

Protection

Do not walk on or damage the waterproof layer during curing. Protect the surface from sharp impact, heavy traffic, and construction debris until subsequent works are completed.

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