



ULTRA SEAL ROOF

Superior Roof Waterproofing

DESCRIPTION

Ultra Seal Roof is an environmentally safe dual component spray applied instant-set protective coating specifically designed to provide heavy duty waterproof protection for roofing restoration and new construction. When cured the product forms a seamless and fully adhered surface membrane. Ultra Seal Roof strongly adheres to most roof substrates, providing waterproofing performance that is not affected by strong sunlight or airborne contaminants. Ultra Seal Roof is cold applied, requiring no open flame or heaters. A dual component instant set system sprayed in conjunction with an inorganic salt solution, it sets instantly allowing contractors to walk and work on the surface with no stickiness or tracking.

Ultra Seal Roof is an elastomeric modified bitumen emulsion applied to restore the waterproof performance of tar & gravel roofing (BUR), rolled roofing membranes, corrugated steel roofing, plywood and asbestos panels and can be applied over poly Urethane foam or polystyrene board insulation.

Ultra Seal Roof is water based; environmentally safe alternative to conventional hot applied bitumen or solvent based protective coatings. It is easier to use than rolled roofing membranes and provides excellent waterproofing and chemicals resistance through a highly flexible seamless membrane that resists cracking and aging. Ultra Seal Roof is unaffected by acid rain or high intensity sunlight and to resistant to many airborne chemicals pollutants found in industrial areas. Free of flammable solvents, Non-Toxic, No Voc's, Low odour & water based.

APPLICATION

Applied as part of a dual component system using a specially designed air-less spray system, both components of this system are water based and environmentally safe.

Ultra Seal Roof should be applied to a dry surface, free of dirt, debris, oil and grease and should not be applied when the ambient temperature is below 5°C or rain is expected within 24 hrs of application. A flood coat of Ultra Seal Roof without the inorganic salt solution is applied prior to the instant set spray application if greater surface penetration is required for old BUR roof system.

The product is applied between 0.4-0.7 m²/ltr, depending on the required membrane thickness. Ultra Seal Roof will dry to the touch in one minute and is largely cured within 48 hrs. Typically an applicator crew can apply 500-750 m² of membrane per day.

LIMITATIONS

Do not apply to wet or frozen surfaces or directly prior to rain. Some surface base coat material such as coal tar is unsuitable for use with Ultra Seal Roof. Please consult technical service with any question.

CAUTION

For industrial use only. Keep out of reach of children. Avoid storage below 5°C. Please consult the material safety Data Sheet before using Ultra Seal Roof.

Ultra Seal Roof is mildly alkaline. When applying this product observe normal safety precautions, wear gloves, eye protection and other suitable protective equipment, for further information kindly contact the Ultra Chemicals office.

COVERAGE

Cured Membrane		Coverage		
Mils	mm	ft ² /ga	ft ² /ltr	m ² /ltr.
40	1.00	30	7.93	0.74
80	2.00	15	3.96	0.37
120	3.00	10	2.64	0.24

PHYSICAL PROPERTIES (LIQUID)	
Property	Typical Results
Color	Brown to Black
Specific gravity (Liquid) g/cm ³	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no Solvents
% solids (wt)	60-63%
Viscosity (sec)	20-285
pH	10-12

PERFORMANCE DATA (Cured Membrane)	
Property	Typical Results
Color	Black
Specific gravity (Liquid) G/cm ³	Approx. 1.0
Chemical Resistance	Resists salt water and most inorganic solutions
Biological resistance ASTM #154, ASTM D 412	Passed
Impact resistance CGSB 37 -GP-56@ 23 °C	Passed (168)
Water Tightness after impact	Passed (no leakage)
Accelerated weathering (xenon arc) ASTM G 155, 250 hrs.	No deterioration of the film. >90% retention of original tensile strength
Tensile strength ASTM D412, kPa (psi)	>830 (>120)
Elongation, %	>850%
Recovery ASTM D 412,%	90%
Hardness, Durometer 00	85
Hardness, Shore A	20
Hardness, Shore D	4
Adhesion to concr ete Defelsco, kPa (psi)	>1240 (>180)
Adhesion to concrete ASTM C 836, N/m (lb/in)	303 (17)
Puncture resistance CGSB 37 GP-56	Passed (no punctures)
Sag flow	None
Blistering ASTM D714, 1000 hrs exposure	None
Abrasion resistance ASTM F 1677	Good-Very Good
Water vapor permeance ASTM # 96, ng/pa.s.m ² (gr/h-ft ²)	4.99 (0.25)
Permeability ASTM E96 ng/m/pa/s	0.071
Air permeance ASTM# 2178, L/s.m ²	0.0004
Permeability methane ASTM D1434-82, cm ² /sec/atm	1.88x10 ⁻⁸
Thermal resistance ASTM C518-04 (2.66/ply)	0.028
UI fire ratings (ballasted)	Class A