

# Liquid Rubber®

## SealRoof B-200® SUPERIOR ROOF WATERPROOFING

Liquid Rubber SealRoof B-200® 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. Liquid Rubber SealRoof B-200® strongly adheres to most roof substrates, providing waterproofing performance that is not affected by strong sunlight or airborne contaminants. It bonds extremely well with Liquid Rubber SealRoof A-100® to provide a colored surface that will not delaminate. SealRoof B-200® 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.

SealRoof B-200® is an elastomer 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 polyurethane foam or polystyrene board insulation.

SealRoof B-200® is a 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 chemical resistance through a highly flexible seamless membrane that resists cracking and aging. Liquid Rubber SealRoof B-200® is unaffected by acid rain or high intensity sunlight and is resistant to many airborne chemical pollutants found in industrial areas.

- FREE OF FLAMMABLE SOLVENTS
- NON-TOXIC
- NO VOC'S
- LOW ODOUR & WATER BASED

PHYSICAL PROPERTIES (Liquid)	
PROPERTY	TYPICAL RESULTS
Colour	Brown to black
Specific gravity (liquid) g/cm <sup>3</sup>	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no solvents
% solids (wt)	60 - 63%
Viscosity (sec)	20 - 25
pH	10 - 12

PERFORMANCE DATA (Cured membrane)	
PROPERTY	TYPICAL RESULTS
Colour	Black
Specific gravity, g/cm <sup>3</sup>	Approx. 1.0
Chemical resistance	Resists salt water and most inorganic solutions
Biological resistance ASTM E154, ASTM D412	Passed
Impact Resistance CGSB 37-GP-56 @ 23°C	Passed (168)
Water tightness after impact	Passed (no leakage)
Accelerated Weathering (Xenon arc)	No deterioration of the film,
ASTM G 155, 250 hrs	>90% retention of original tensile strength
Tensile Strength ASTM D 412, kPa (psi)	>830 (>120)
Elongation, %	>850%
Recovery ASTM D412, %	90%
Hardness, Durometer 00	85
Hardness, Shore A	20
Hardness, Shore D	4
Adhesion to concrete DeFelsco, kPa (psi)	>1240 (>180)
Adhesion to concrete ASTM C836, N/m (lb/in)	303 (17)
Puncture resistance CGSB 37-GP-56	Passed (no punctures)
Sag flow	None
Blistering ASTM D 714, 1000 hrs exposure	None
Abrasion resistance ASTM F 1677	Good - very good
Water vapor permeance ASTM E 96, ng/Pa.s.m <sup>2</sup> (gr/h-ft <sup>2</sup> )	4.99 (0.25)
Permeability ASTM E 96, ng/m/Pa/s	0.071
Air permeance ASTM E 2178, L/s.m <sup>2</sup>	0.0004
Permeability methane ASTM D1434-82, cm <sup>3</sup> /sec/atm	1.88 x 10-8
Thermal resistance ASTM C518-04 (2.66/ply)	0.028
UL fire ratings (ballasted)	Class A

### 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.

SealRoof B-200® should be applied to a dry surface, free of dirt, debris, oil or 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 Liquid Rubber SealRoof B-200®, without the inorganic salt solution is applied prior to the instant set spray application if greater surface penetration is required for old BUR roof systems.

The product is applied between 0.4-0.7 m<sup>2</sup>/litre, depending on the required membrane thickness. Liquid Rubber SealRoof B-200® will dry to the touch in one minute and is largely cured within 48 hrs. Typically an applicator crew can apply 500 – 750 m<sup>2</sup> of membrane per day.

### LIMITATIONS

Do not apply to wet or frozen surfaces or directly prior to rain. Some surface base coat materials such as coal tar are unsuitable for use with Liquid Rubber SealRoof B-200®. Please consult technical service with any questions.

### 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 SealRoof B-200®.

SealRoof B-200® is mildly alkaline. When applying this product observe normal safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product MSDS.

### TECHNICAL SERVICE

866.979.0300 | 905.825.2600

COVERAGE				
Cured Membrane		Coverage		
Mils	mm	ft <sup>2</sup> /gal	ft <sup>2</sup> /litre	m <sup>2</sup> /litre
40	1.00	30	7.93	0.74
80	2.00	15	3.96	0.37
120	3.00	10	2.64	0.24

**MSDS MATERIAL SAFETY DATA SHEET****SECTION 1 MATERIAL IDENTIFICATION**

TRADE NAME: LIQUID RUBBER SealRoof B-200<sup>®</sup> MATERIAL USE: Protective Coating EMERGENCY TEL # 1-866-979-0300  
 CHEMICAL FAMILY: Water suspension of petroleum derived hydrocarbons (polymer modified emulsified asphalt) and inert fillers.  
 T.D.G. CLASSIFICATION: NON REGULATED WHIMIS CLASSIFICATION: NON REGULATED

**SECTION II COMPOSITION, INFORMATION ON INGREDIENTS**

COMPONENT	CAS#	% (BY MASS)	LC50 (ppm) (rat inhal)	LD50 (mg/kg) (rat oral)
Complex mixture of bitumens	9072-35-9	40-70	n/a	n/a
Anionic surfactants	143-19-1	0.5-2.0	n/a	n/a
Water	7732-18-5	30-60	n/a	n/a
Polymer dispersion	9010-98-4	5-25		

**SECTION III PHYSICAL PROPERTIES**

Odour and appearance: Brown liquid, slight resinous odour. - Odour threshold: n/a - Specific gravity: 1.00 (approx.)  
 Coefficient of water/oil distribution: n/a - Vapour pressure (mm Hg): 17 @20°C (water) - Boiling point: 100°C (water) - Freezing point: 0°C  
 pH: 7-13 - Vapour density (air = 1): >1 - Evaporation rate (nBuAcetate = 1): <1 - Volatiles %: 40-60 (water) - Solubility in water: partially soluble

**SECTION IV FIRE & EXPLOSION DATA**

Means of extinction: n/a - Sensitivity to mechanical impact/static discharge: n/a - Flash point (method): n/a (non-combustible)  
 Upper flammable limits % : n/a - Lower flammable limits % : n/a - Auto-ignition temperature: n/a - Special fire fighting instructions: n/a  
 Unusual fire and explosion hazards: Product will not burn but may splatter if temperature exceeds the boiling point of water.

**SECTION V REACTIVITY DATA**

Chemical stability: Stable - Incompatible materials: Will react with alkaline sensitive materials such as acids and certain metals. Do not store in aluminum containers or mix with aluminum implements.  
 Hazardous decomposition products: Avoid heating above 200°C. At elevated temperatures hazardous vapours can be released, including carbon monoxide, hydrogen chloride, organic acids and aldehydes. - Hazardous polymerization: Will not occur.

**SECTION VI HEALTH INFORMATION**

Exposure limit: n/a - Inhalation: n/a - Skin: Adhesion - Eyes: Adhesion, irritation. - Ingestion: Blockage of digestive and/or respiratory tract.  
 Chronic effects: n/a

**EMERGENCY AND FIRST AID PROCEDURES**

Inhalation: n/a  
 Skin: This is an alkaline product. If splashed on the skin immediately wash thoroughly with fresh water. If the product has dried on the skin massage the area with medical grade mineral oil, baby oil or edible oil, then wash with soap and water. If irritation persists seek medical attention.  
 - Eyes: Flush thoroughly with fresh water for at least ten minutes. Seek medical attention.  
 Ingestion: DO NOT INDUCE VOMITING. Seek medical attention.

**SECTION VII SPILL PROCEDURES**

In the event of a spill: Dike and contain, transfer to containers for recovery or disposal. Keep out of sewers.  
 Waste disposal method: Follow federal, provincial and local regulations regarding disposal.

**SECTION VIII SPECIAL PROTECTION**

Respiratory protection: n/a - Ventilation: n/a - Protective gloves: Recommended - Eye protection: safety glasses/splash goggles recommended  
 - Other protective equipment: Long sleeves, loose clothing recommended.

**SECTION IX SPECIAL PRECAUTIONS**

Storage and handling conditions: Keep containers tightly closed when not in use. KEEP FROM FREEZING.  
 Special shipping information: Not regulated by the Transportation of Dangerous Goods Regulations.

Prepared by: Liquid Rubber Worldwide Inc. - Preparation date: 1-Nov-2010

The information contained herein is based on available data and is provided for information only. Liquid Rubber Worldwide Inc. makes no warranties, guarantees or conditions, expressed or implied, regarding the accuracy of the data or its use therein. Liquid Rubber Worldwide Inc. will not be liable for any damages arising from the use of the information or product described on this data sheet.