

# Liquid Rubber®

## SealRoof A-100®

ACRYLIC EMULSION BASED WATERPROOFING AND SURFACE PROTECTION

Liquid Rubber SealRoof A-100® is a light duty polymer modified acrylic emulsion based coating available in a range of colours which is applied alone or as a top coat for Liquid Rubber's bitumen waterproofing and protective coatings. Applied as a single component liquid, Liquid Rubber SealRoof A-100® is seamless, providing surface protection in a coloured membrane.

Liquid Rubber SealRoof A-100® can be applied to a wide range of surface materials and can be used both outside and inside as Liquid Rubber SealRoof A-100® is resistant to damage from sunlight. For industrial applications Liquid Rubber SealRoof A-100® is recommended where the surface requires protection from intermittent hydrocarbon or chemical spills or for intermittent water emersion. Liquid Rubber SealRoof A-100® is formulated for application by brush, roller or conventional paint spray equipment. Applications include roof waterproofing, internal and external storage and process tank walls, piping and metal and wood structural features and protective decorative surface finishes for decks, balconies, and walkways.

SealRoof A-100® is a water based, environmentally safe alternative to conventional solvent based decorative coatings. SealRoof A-100® provides weather and chemical resistance in a highly flexible seamless membrane that resists cracking and aging. Liquid Rubber SealRoof A-100® resists damage from acids, alkali, water-borne salts and harsh sunlight.

• FREE OF FLAMMABLE SOLVENTS

• NON-TOXIC

• NO VOC'S

• LOW ODOUR & WATER BASED

PHYSICAL PROPERTIES (Liquid)	
PROPERTY	TYPICAL RESULTS
Colour	See colour chart
Specific gravity (liquid) g/cm <sup>3</sup>	Approx. 1.1
Odour	None
Volatile Organic Compound	Contains no solvents
Solids Content	50 - 55%
Viscosity, Brookfield (cps)	8,000 - 10,000
pH	8 - 11

PERFORMANCE DATA (Cured membrane)	
PROPERTY	TYPICAL RESULTS
Colour	See colour chart
Specific gravity, g/cm <sup>3</sup>	Approx. 1.1
Chemical resistance	Resists salt water and many organic and inorganic solutions
Tensile Strength ASTM D 412, MPa (psi)	6.9 (1,000)
Elongation, %	200%
Adhesion to concrete ASTM C 907, MPa	3.00
Adhesion to concrete ASTM C 907, psi	450
Sag flow	None
Low temperature mandrel CGSB 37.58-M86, para. 7.2.6, -15°C	Pass
Hardness, Durometer Type 00	80 - 85
Hardness, Durometer Type A	65 - 67
Hardness, Durometer Type D	18 - 20
Abrasion resistance	Good - very good

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

### APPLICATION

SealRoof A-100® may be applied either alone or as a surface coating over Liquid Rubber SealRoof B-200®, Liquid Rubber CreteSafe B-250®, Liquid Rubber MetalSafe B-300® or Liquid Rubber S-200® that may vary in thickness from 1.0 – 2.0mm. An acrylic sealer may be applied over Liquid Rubber SealRoof A-100®. SealRoof A-100® is applied by roller, brush or spray pump.

Liquid Rubber SealRoof A-100® should be applied to a dry surface, free of dirt, debris, oil or grease and not when the ambient temperature is below 10°C or if rain is expected within 24 hours of application. Thickness can be controlled by applying in multiple thin coats.

SealRoof A-100® is to be applied between 0.4-0.8 m<sup>2</sup>/litre depending on the required membrane thickness and color selection (lighter colors may require heavier application).

### LIMITATIONS

Liquid Rubber SealRoof A-100® should not be applied when the ambient temperature is below 10°C. The uncured membrane may be damaged if frozen and should not be applied to wet or frozen surfaces or directly prior to rain. SealRoof A-100® is not recommended for ponding or standing water.

### CAUTION

Keep out of reach of children. Avoid storage below 5°C. Please consult the Material Safety Data Sheet before using SealRoof A-100®.

Liquid Rubber SealRoof A-100® 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

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

TRADE NAME: SealRoof A-100® MATERIAL USE: Protective Coating EMERGENCY TEL # 1-866-979-0300  
 CHEMICAL FAMILY: Water suspension of elastomeric synthetic polymers 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 synthetic polymers	9003-01-04	40-70	n/a	n/a
Anionic surfactants	143-19-1	0.5-2.0	n/a	n/a
Inert mineral fillers	92704-41-4	10-30		
Water	7732-18-5	10-20	n/a	n/a
Ammonia	7664-41-7	0.2 (max)		

**SECTION III PHYSICAL PROPERTIES**

Odour and appearance: Grey liquid, slight ammoniac 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: 8-11 - Vapour density (air = 1): >1 - Evaporation rate (nBuAcetate = 1): <1 - Volatiles %: 10-30 (water) - Solubility in water: completely dispersible

**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: SealRoof A-100® is an alkaline product and will react with alkaline sensitive materials such as acids and certain metals. Contact with incompatible chemicals such as acids or multivalent salts may cause coagulation. Do not store in aluminum containers or mix with aluminum implements. Hazardous decomposition products: To avoid formation of steam, avoid heating above 100°C (212°F). If the product is subjected to elevated temperatures, hazardous vapours can be released once all the water has evaporated. Potential including carbon monoxide, organic acids and aldehydes. - Hazardous polymerization: Will not occur.

**SECTION VI HEALTH INFORMATION**

Exposure limit: n/a - Inhalation: n/a - Skin: Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may result in slight irritation and redness. A single prolonged exposure is not likely to result in the material being absorbed through the skin in harmful amounts. - Eyes: contact with the eyes will result in irritation. - Ingestion: Single dose oral toxicity is considered to be very low. - Chronic effects: n/a  
 Caution: Inhalation of vapour or mist can cause headache, nausea and irritation of the eyes, nose, throat and lungs.

**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: Good general ventilation should be sufficient to control airborne levels of irritating vapors. Local exhaust ventilation may be necessary for some operations. - 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

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