Liquid Rubber®

MSDS MATERIAL SAFETY DATA SHEET SPRAYGRADE

According to Regulation (EC) 1907/2006

SECTIE I MATERIAL IDENTIFICATION

TRADE NAME: LIQUID RUBBER® SPRAYGRADE - MATERIAL USE: Protective Coating - EMERGENCY TEL +31 (0)297 587866 - 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

SECTIE II HAZARDS INDENTIFICATION

Hazards: n/a

SECTIE III COMPOSITION, INFORMATION ON INGREDIENTS

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

SECTIE IV 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.

SECTIE V 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.

SECTIE VI 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.

SECTIE VII 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.

SECTIE VIII 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

SECTIE IX 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

SECTIE X REACTIVITY DATA

Chemical stability: Stable - Incompatible materials: Will react with alkaline sensitive materials such as acids and certain metals. Contact with reactive metals such as aluminium or magnesium will result in the formation of explosive hydrogen gas. - 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.

SECTIE XI 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.

SECTIE XII ECOLOGICAL INFORMATION

Ecological information: Toxicity: n/a - Ecotoxicity effects: n/a

DECLARATION OF PERFORMANCE

Construction Products Regulation (CPR) EU 305/2011

CE according to EN 1504

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SECTIE XIII DISPOSAL CONSIDERATIONS

Instructions for removal: Use soap and warm water to clean tools. Waste disposal method: Keep out of sewers. Dispose of in accordance with applicable legal provisions. Comply with federal, state or local regulations regarding disposal.

SECTIE XIV TRANSPORT INFORMATION

Transport information: No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR. - VN-number: n.v.t. - Loadingname: n.v.t. - Transport hazzard class(es): n.v.t. - Packing group: n.v.t. - Special precautions for users: n.v.t.

SECTIE XV REGULATORY INFORMATION

Regulatory information: n/a

SECTIE XVI PREPARED BY

LRE Coatings B.V. – Preparation date: 1-jan-2015

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Liquid Rubber®

SprayGrade

SUPERIOR ROOF WATERPROOFING

SprayGrade is used as a waterproofing membrane for roof protection. SprayGrade can be applied over a wide range of substrates including existing built up roof systems.

SprayGrade is used as a protective coating to prevent water and corrosion damage. SprayGrade can be used for rust protection of ferrous materials and is also of value for noise and vibration dampening SprayGrade is also appropriate for use on concrete structures, slabs and parking decks

SprayGrade is used as a waterproofing membrane for concrete foundation structures, basements, retaining walls, pond lining, parking planters, and other exterior surfaces. SprayGrade is used wherever waterproofing or damp-proofing is required to protect a structure.

• FREE OF FLAMMABLE SOLVENTS • NON-TOXIC • ODOURLESS AND WATER BASED

APPLICATION

SprayGrade is applied as a dual component system using a specially designed spray system. Both components of the system are water based and environmentally friendly. Applied at ambient temperature (above 15°C) SprayGrade sets almost instantly, forming a seamless flexible membrane. SprayGrade is a safe alternative to conventional hot-applied or solvent based waterproofing systems. For best results SprayGrade should be applied to a dry surface which is free of dirt, debris, oil or grease. The product sets up rapidly, however it is not recommended to apply any waterproofing product if heavy rains are imminent. SprayGrade is applied between 0.7 m /litre (30 ft /gal) to produce a 40 mil protective membrane to 0.175 m /litre (7.5 ft /gal) to produce a 160 mil membrane. Typically SprayGrade dries to the touch in one (1) minute @20°C and is completely cured in 48 hrs. This curing time may vary depending on temperature and relative humidity. Typically an applicator crew can spray 6,000 ft (560 m) per day. Protection board or insulation may be applied to the membrane surface after an initial set time of 20 minutes.

LIMITATIONS

SprayGrade is mildly alkaline. When applying, observe normal safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product MSDS. SprayGrade should not be applied when the ambient temperature is below 5°C. The uncured membrane may be damaged if frozen. Do not apply to wet or frozen surfaces or directly before a rain.

CAUTION

For industrial use only. Keep out of the reach of children. Avoid storage below 5°C. Please consult the Material Safety Data Sheet before using SprayGrade

PHYSICAL PROPERTIES (Liquid)	
PROPERTY	TYPICAL RESULTS
Colour	Brown to black
Specific gravity (liquid) g/cm3	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no solvents
% Solids (wt)	53 - 58
Viscosity, SSF @ 25ºC, seconds	15-20
pH	10 - 12

COVERAGE			
Cured Membrane		Coverage	
Mils	mm	ft2/l	m2/l
40	1.00	7.93	0.74
80	2.00	3.96	0.37
120	3.00	2.64	0,24

TECHNICAL SERVICE

+31 (0)297 587866

PERFORMANCE DATA (Cured membrane)	
PROPERTY	TYPICAL RESULTS
Colour	Black
Specific gravity, g/cm3	Approx. 1.0
Chemical resistance ASTM G 20	Resistant to most inorganic solutions. Not recommended for gasoline or other petroleum products. Consult Chemical Resistance chart for further information.
Biological resistance ASTM E 154, ASTM 0412	Passed (> 90% original value)
Impact resistanceCSB37 -GP-500 23'C, in-lbs	Passed (168)
Water tightness after impact	Passed (no leakage)
Water tightness CGSB 37-GP-56	Zero leakage
Tensile strength ASTM 0412, psi	90
Elongation, %	850
Adhesion to Concrete Strength, ASTM C 907 (amended to tensile adhesion), psi	'111
Puncture resistance CGSB 37-GP-56, 24 hr @ 29N, -5oC	Passed (No perforations)
Accelerated weathering, ASTM G 155, D 412	Passed (No deterioration of film)
Tensile strength	Passed (> 90% original value)
Hardness, Durometer Type 00	85-87
Underwriters Laboratories	Class A Fire Rating (call for details)
National Sanitation Foundation	Potable water approved

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