

MSDS MATERIAL SAFETY DATA SHEET JOINT FILLER

According to Regulation (EC) 1907/2006

SECTION I MATERIAL IDENTIFICATION

TRADE NAME: LIQUID RUBBER® JOINT FILLER - 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

SECTION II HAZARDS IDENTIFICATION

Hazards: n/a

SECTION 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

SECTION 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. **Notes to Physician:** No attempt should be made to remove firmly adhering bitumen from the skin. Once the bitumen has cooled, it will do no further harm and in fact provides a sterile covering over a burnt area. As healing takes place, the bitumen plaque will detach itself, usually after a few days. If solvent treatment is used, it should be followed by washing with soap and water, then the application of a proprietary refatting agent or skin cleansing cream. Only medically approved solvents may be used to remove bitumen from burns, as other solvents could cause further skin damage.

SECTION 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.

SECTION 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.

SECTION 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.

SECTION 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

SECTION 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 %: 30-60 (water) - Solubility in water: partially soluble

SECTION X REACTIVITY DATA

Chemical stability: Stable - Incompatible materials: n/a - 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 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.

SECTION XII ECOLOGICAL INFORMATION

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

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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 hazard 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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JOINTFILLER

WATERPROOFING ADHESIVE SEALANT & COATING

JointFiller is a modified elastomeric asphalt emulsion specifically formulated to be applied by silicon gun. JointFiller is a cold applied single component product designed for a wide range of protective joint filling applications. The product technology employed in JointFiller provides a solvent-free, coating that yields a membrane with excellent strength, elasticity and adhesion.

JointFiller is an environmentally friendly waterproofing and air barrier product that can be applied indoors and outdoors with no special protective equipment. JointFiller is used as a protective coating to prevent water and corrosion damage. JointFiller can be used for rust protection of ferrous materials and is also of value for noise and vibration dampening. It may also be applied to concrete structures, slabs and parking decks. The high viscosity of JointFiller allows it to be used to cover small cracks, or to coat vertical seams or joints.

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

APPLICATION

JointFiller is a water based environmentally safe alternative to conventional hot-applied or solvent based waterproofing systems. When cured it will form a seamless flexible membrane. JointFiller is a single component product that must be applied using silicon pistol. Since JointFiller cures by evaporation, an application temperature of 15-20°C is recommended. The product fully cures within 24 hours at 20°C (70°F) and 50% relative humidity, when applied at a thickness of 40 mils (1 mm). JointFiller should be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rains are imminent, or in high humidity environments. For best results apply in thin coats. See application manual or consult with your Liquid Rubber Europe representative for further details. JointFiller is applied in a thickness depending on the size of the joint or seam. Typically JointFiller dries to the touch in one minute @20°C and is completely cured in 48 hrs. This curing time may vary depending on temperature and relative humidity. Important: During curing process there is formed a greasy layer on the JointFiller. Degrease the membrane before the next layer will be applied.

LIMITATIONS

JointFiller is mildly alkaline. When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product MSDS.

CAUTION

JointFiller should not be applied when the ambient temperature is below 15°C. The uncured membrane may be damaged if frozen. Do not apply to wet surfaces or directly before a rain. Some surface base coat materials such as coal tar are unsuitable for use with JointFiller. For industrial use only. Keep out of the reach of children. Do not apply if rain is imminent within 24 hrs. Do not store in direct sunlight max 32°C (90°F) or below 5°C (41°F).

PHYSICAL PROPERTIES (Liquid)	
PROPERTY	TYPICAL RESULTS
Colour	Brown to black
Specific gravity (liquid) g/cm ³	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no solvents
% Solids (wt)	53 - 58%
Viscosity, Brookfield (sp. #5, 20 rpm)	25.000 - 35.000
pH	10 - 12

COVERAGE			
Cured Membrane		Coverage	
Mils	mm	ft ² /l	m ² /l
40	1.00	7.93	0.74
80	2.00	3.96	0.37
120	3.00	2.64	0.24

PERFORMANCE DATA (Cured membrane)	
PROPERTY	TYPICAL RESULTS
Colour	Black
Specific gravity, g/cm ³	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 resistance CSB37 -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
Accelerated weathering, ASTM G 155,0 412	Passed (No deterioration of film)
Tensile strength	Passed (> 90% original value)
Hardness, Oroumeter Type 00	85-87
Salt Fog Corrosion, Steel ASTM D412	1000 hours passing
Surface Corrosion ASTM D610	No Corrosion after 500 hours, 0.03% after 1000 hours
Adhesion to concrete ASTM C907	765 kPa
Hardness ASTM D2246	50 Type A
Puncture resistance CGSB 37-GP-56	No perforations
Water Vapour Transmissions ASTM E96	0.04

TECHNICAL SERVICE

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