

Liquid Rubber®

TrowelGrade B-400®

A TROWEL GRADE SEALANT AND PATCHING COMPOUND

Liquid Rubber TrowelGrade B-400® is a high viscosity bituminous emulsion modified with elastomeric polymers to provide excellent waterproofing properties for sealant and caulking applications. Liquid Rubber TrowelGrade B-400® seals are flexible, have excellent adhesion and are resistant to chemical and UV degradation.

TrowelGrade B-400® seals fixtures, cracks, roof and wall penetration to prevent leakage. The high viscosity and elastic properties of Liquid Rubber TrowelGrade B-400® makes it ideal to seal small cracks, and reinforce horizontal to vertical transitions.

TrowelGrade B-400® is a water based, environmentally safe alternative to conventional hot applied or solvent based waterproofing systems. TrowelGrade B-400® does not degrade in the presence of acids, alkalis and waterborne salts and is resistant to biological deterioration.

- 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 ³	Approx. 1.0
Odour	None
Volatile Organic Compound	Contains no solvents
Solids Content	65 - 68%
Viscosity, Brookfield (cps)	30,000 - 50,000
pH	10 - 12

PERFORMANCE DATA (Cured membrane)	
PROPERTY	TYPICAL RESULTS
Colour	Black
Specific gravity, g/cm ³	Approx. 1.0
Chemical resistance ASTM G 20	Resists salt water and most inorganic solutions
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, %	>500%
Recovery ASTM D 412, %	>90%
Adhesion to concrete DeFelsco, kPa (psi)	>900 (>130), cohesive failure
Low temperature mandrel -10°C	Passed
Hardness, Durometer 00	90 - 95
Hardness, Shore A	45 - 50
Hardness, Shore D	8 - 10
Hardness, Shore D	3 - 4

COVERAGE				
Cured Membrane		Coverage		
Mils	mm	ft ² /gal	ft ² /litre	m ² /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

TrowelGrade B-400® is a single component product applied using a trowel.

Liquid Rubber TrowelGrade B-400® 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 if rain is expected within 24 hours of application. With joints or larger cracks in the surface a geo-textile reinforcing layer is recommended.

TrowelGrade B-400® is applied between 0.3-0.7 m²/litre depending on the required membrane thickness. Typically TrowelGrade B-400® will dry to the touch in one minute and fully cures within 24 hours at 20°C (70°F) and 50% relative humidity, when applied at a thickness of 40 mils (1mm). The curing time may vary depending on temperature and relative humidity.

LIMITATIONS

Liquid Rubber TrowelGrade B-400® should not be applied when the ambient temperature is below 5°C. The uncured membrane may be damaged if frozen and should not be applied to wet or frozen surfaces or directly prior to rain. Some surface base coat materials such as coal tar are unsuitable for use with TrowelGrade B-400®. 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 TrowelGrade B-400®.

Liquid Rubber TrowelGrade B-400® 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 I MATERIAL IDENTIFICATION**

TRADE NAME: LIQUID RUBBER TrowelGrade B-400® **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

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