

# Liquid Rubber®

## DryLar®

WATERPROOFING AND PROTECTION FOR CONCRETE SURFACES AND ICF'S  
CCMC APPROVED FOR CONCRETE AND BLOCK CCMC 13175-R

Liquid Rubber Drylar® is a water based elastomer modified bitumen applied as a dual fluid system with an inorganic salt solution to form an 'instant-set' coating. When cured this coating functions as a high quality, protective membrane providing excellent protection for concrete surfaces from water penetration, salt or other chemical attack. Liquid Rubber Drylar® when cured is highly elastic and will bridge small cracks that appear in the concrete on settling and the Liquid Rubber Drylar® coating is seamless and fully adhered to the surface so no water can get behind the coating to attack the concrete. Liquid Rubber Drylar® meets the Canadian Construction Materials Centre requirements for foundation applications, and is a cold applied using an airless dual pump applicator for safety and efficiency.

Liquid Rubber Drylar® is used wherever concrete needs to be protected from the effects of water, salt or chemical damage both above and below grade. Daclar® will not degrade in sunlight. Applications include concrete poured and block foundations, retaining walls, tunnel liners, parking deck structures, concrete water and wastewater containment tanks and ICF (insulated concrete forms).

Liquid Rubber Drylar® is a water based, environmentally safe alternative to conventional hot applied bitumen or solvent based protective coatings and easier to use than pre-formed plastic sheeting. Liquid Rubber Drylar® provides excellent waterproofing and chemical resistance through a highly flexible seamless membrane that resists cracking and aging. Liquid Rubber Drylar® is unaffected by a wide range of mild acids, alkalis, salts and other inorganic chemicals.

- 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
Impact Resistance CGSB 37-GP-56@23C, J	19.5
Impact Resistance CGSB 37-GP-56@-10C, J	27.1
Water tightness after impact	Passed (no leakage)
Accelerated Weathering (Xenon arc)	No deterioration of the film,
ASTM G 155, D 412, 250 hrs	>90% retention of original tensile strength
Tensile Strength ASTM D 412, kPa (psi)	150 (22)
Elongation, %	>1300%
Recovery ASTM D 412, %	90%
Hardness, Durometer 00	76 - 78
Hardness, Shore A	15 - 17
Hardness, Shore D	3 - 4
Adhesion to concrete ASTM C 907, kPa (psi)	348 (50), cohesive failure
Puncture resistance CGSB 37-GP-56	Passed (no punctures)
Sag flow CGSB 37.58-M86	None
Water absorption, CGSB 37-GP-56M, %	1.83
Crack bridging ASTM C 1305(B), -20°C for	No visible cracks
70 cycles(unaged), 30 cycles(aged)	No visible cracks
Low temperature flexibility	Pass (-20°C)
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> )	6.57 (0.33)
Dielectric strength kV/mm (V/mil)	14.2 (360)

### APPLICATION

Liquid Rubber Drylar® is spray applied as a dual fluid system in conjunction with an inorganic salt solution to promote instant setting. Equipment and training is provided by Liquid Rubber.

Liquid Rubber Drylar® 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. For best results apply in multiple thin coats. A flood coat of Liquid Rubber Drylar®, without the inorganic salt solution, may be applied to open or course concrete surfaces prior to the instant setting application.

Liquid Rubber Drylar® is applied between 0.4-0.7 m<sup>2</sup>/litre, depending on the required membrane thickness. Typically, Liquid Rubber Drylar® is non-tacky in one minute and is largely cured within 48 hrs. Liquid Rubber Drylar® does not require a protection board to be used and backfilling can begin immediately or as per regional regulations. A crew can apply 6-7,000 ft<sup>2</sup> of membrane per day.

### LIMITATIONS

Liquid Rubber Drylar® 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 Liquid Rubber Drylar®. 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 Liquid Rubber Drylar®.

Liquid Rubber Drylar® 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

905.528.5800 | 905.825.2600 | 866.979.0300

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