

Liquid Rubber®

VeZlar®

METAL CORROSION PROTECTION

Liquid Rubber VeZlar® is a specially designed coating that provides exceptional corrosion protection for a variety of substrates. Liquid Rubber VeZlar® provides chemical and abrasion resistance in an instant setting flexible membrane that resists cracking, aging and delamination.

Liquid Rubber VeZlar® is used to protect ferrous metal structures subjected to water or chemically aggressive environments. Applications include storage and process tanks, piping and structural features in; mining and ore extraction facilities, fertilizer plants, water treatment plants, desalination plants, chemical processing facilities, pulp mills and power plants.

Liquid Rubber VeZlar® is an environmentally and workplace safe alternative to conventional epoxy, urethane or solvent based protective coatings. Liquid rubber VeZlar® is unaffected by a range of acids, alkalis and waterborne salts. Unlike many other protective coatings VeZlar can be applied directly over lightly rusted metal.

- 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 (wt)	60 - 63%
Viscosity (sec)	18 - 30
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) ASTM G 155, 250 hrs	No deterioration of the film, >90% retention of original tensile strength
Tensile Strength ASTM D 412, Kpa (psi)	>830 (>120)
Elongation, %	>950%
Recovery ASTM D 412, %	>90%
Adhesion to concrete DeFelsco, kPa (psi)	>900 (>130), cohesive failure
Low temperature mandrel -10°C	Passed
Hardness, Durometer 00	83 - 85
Hardness, Shore A	18 - 20
Hardness, Shore D	3 - 4
Adhesion to concrete DeFelsco, kpa (psi)	>1200 (>170)
Adhesion to concrete ASTM C836 N/m (lb/in)	260 (15)
Puncture resistance CGSB 37-GP-56	Passed (no punctures)
Sag flow	None
Blistering ASTM D 714, 1000 hrs exposure	None
Salt fog corrosion ASTM B 117-97, 1000 hrs	Passed (no creep back)
Abrasion resistance ASTM F 1677	Good - very good
Water vapor permeance ASTM E96 ng/Pa.s.m ² (gr/h-ft ²)	4.99 (0.25)
Permeability ASTM E 96, ng/m/Pa/s	0.071
Air permeance ASTM E 2178, L/s.m ²	0.0004
Permeability methane ASTM D1434-82, cm ² /sec/atm	1.88 x 10 ⁻⁸
Thermal resistance ASTM C518-04 (2.66/ply)	0.028
UL fire ratings (ballasted)	Class A

APPLICATION

Liquid Rubber VeZlar® is an instant setting coating applied as a dual component system with an inorganic salt solution using a specially designed air-less spray system. Both components of this system are water based and environmentally safe.

Liquid Rubber VeZlar® can be applied to lightly rusted metal, saving the time and expense of grinding surfaces to bare metal. Surfaces should be water-blasted or sandblasted prior to application and the surface should be dry, free of dirt, debris, oil or grease. Liquid Rubber VeZlar® should not be applied when the ambient temperature is below 5°C, or if rain is expected within 24 hrs of application. Liquid Rubber VeZlar®, applied as an interior tank liner cures best under controlled humidity and a portable de-humidifier unit may be required to assist in the curing process

Liquid Rubber VeZlar® is to be applied between 0.4-1.5 m²/litre depending on the required membrane thickness. For best results apply in thin coats. VeZlar® is non-tacky to the touch in one minute and is largely cured within 48 hrs. The final cured properties may, however, not be realized for 7 days. Where Liquid Rubber VeZlar® is applied as an interior tank liner allow a minimum of 7 days prior to re-commissioning the tank.

LIMITATIONS

Liquid Rubber VeZlar® 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 prior to rain. Some surface base coat materials such as coal tar are unsuitable for use with Liquid Rubber VeZlar®. 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 VeZlar®.

Liquid Rubber VeZlar® is mildly alkaline and is not recommended for aluminum surfaces. 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 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