



AXION ELASTOMERIC LIQUID RUBBER



Technical Data Sheet

Axion Elastomeric (AE) Liquid Rubber - Spray & Brush Grade

DESCRIPTION

Axion Liquid Rubber is a polymer modified elastomeric emulsion specifically formulated to be applied by brush, roller or specially designed spray equipment. Liquid Rubber is a cold applied single component product designed for a wide range of protective coating applications. The product technology used in AE Liquid Rubber provides a solvent-free, quick-setting coating that produces the ultimate seamless waterproof membrane with excellent strength and flexibility. AE Liquid Rubber is an environmentally friendly waterproofing product that can be applied indoors and outdoors with no special protective equipment.

TESTING APPROVALS AND STANDARDS

- AE Liquid Rubber is compliant with the following standards:
- CSIRO Technical Assessment No: 337 - Satisfying requirements of a Class III membrane as stated in AS3740:2004 'Waterproofing of Wet Areas in Residential Buildings'
- CSIRO Compliance Assessment Report No: 3877 - AS4858:2004 'Wet area membranes'

FEATURES

- Non-toxic
- VOC and solvent free
- Easy to use and repair
- Odorless and non-flammable
- Excellent adhesion
- Good chemical resistance
- Extremely strong and flexible
- Water based
- Suitable for interior or exterior use
- Permanently flexible

USES

AE Liquid Rubber is primarily used as a protective coating to prevent water ingress and corrosion damage. It can be used for corrosion protection of ferrous materials and is also effective for noise and vibration reduction. Liquid Rubber can be applied to roofs, tanks, troughs, retaining walls, planter boxes, slabs, wet areas and decks. It will stick to masonry, bricks, pavers, render, cement sheeting, concrete, steel and wood.

AELR is used to prevent water and vapour transmission between concrete slab and wear slabs, etc.

AELR will bond to majority of surfaces, including poured concrete, with the bond strength being heightened by compression, even once cured.

AELR can also be used in painting and protection of block walls without the need for plastering before placing aluminum composite pannels.



TECHNICAL DATA

Property	Typical results
Specific gravity (liquid) g/cm ³	Approx. 1.0
Odour	None
VOC	Contains no solvents
Colour	Brown to black
% solids (wt)	53 - 58
Viscosity, Brookfield, sp. #5, 20 rpm	8000 - 9000
pH	10 - 12

Performance (Cured Membrane)	Typical results
Colour	Black
Specific gravity, g/cm ³	Approximately 1.0
Chemical resistance	Resistant to most inorganic solutions. Not recommended for gasoline or other petroleum products. Consult Chemical Resistance chart
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, %	1000
Accelerated weathering, ASTM G 155, 0 412	Passed (No deterioration of film)
Tensile strength	Passed (> 90% original value)
Hardness, Durometer 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



APPLICATION INSTRUCTIONS

AE Liquid Rubber is a water based, environmentally safe alternative to conventional heat-applied or solvent based waterproofing systems. When cured it will form the ultimate seamless flexible membrane. Liquid Rubber is a single component product that may be applied by brush, roller, poured on or spray applied using specially designed spray equipment. AE Liquid Rubber cures by evaporation, so an application temperature of 15 - 40°C is recommended. It completely cures within 24 hours at 30°C and 50% relative humidity when applied at a thickness of 1mm. Liquid Rubber should be applied to a dry surface which is free of dirt, debris, oil or grease. Application is not recommended if heavy rain is imminent, or in high humidity environments. For best results apply in thin coats and leave to dry for at least 12 hours. Joints or cracks in the surface should be reinforced using Polyethylene Reinforcing Fabric. See application instructions or consult with a DIY Waterproofing representative for further details.

AE Liquid Rubber can be applied between 1.2 - 4.2 L/m² for a dry film thickness of 1mm - 3mm protective membrane. Typically, Liquid Rubber dries to the touch in one minute @ 30°C and is completely cured in 48 hrs. Curing time may vary depending on temperature and relative humidity.

LIMITATIONS

When applying this product observe appropriate safety precautions, wear gloves, eye protection and other suitable protective equipment. For further information please consult the product SDS. AE Liquid Rubber 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 rain. Some surface base coat materials such as coal tar are unsuitable for use with Liquid Rubber.

CAUTION

For industrial use only. Keep out of reach of children. Store in a cool dry place. Avoid storage below 5°C. Please consult the product SDS before using AE Liquid Rubber.
THIS PRODUCT IS NOT SUBJECT TO CONTROLLED PRODUCTS OR DANGEROUS GOODS REGULATIONS.

TECHNICAL ADVICE

Call RTT Sealant : +1- 416-414-4285 +1-473-406-5336
Email RTT Sealant: www.AxionCanada.com
Prepared by: Axion Construction Solutions Inc
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DISCLAIMER

Customers are advised to consider the information in this data sheet in the context of how the product will be used, including surfaces and any other products used. The information provided in this data sheet represents our best scientific and practical knowledge. Any advice, information or assistance provided by AXION in relation to its products is given in good faith, however is provided without liability or responsibility. Due to the wide variety of site conditions we are unable to assume liability for any loss that may arise from the use of our products. The user is responsible for checking the suitability of products for their intended use.