

LEAKSEAL® Liquid Rubber Waterproofing

Water based liquid applied elastomeric waterproof coating

LEAKSEAL® Liquid Rubber Waterproofing is a one component, water-based UV cross linking pure acrylic liquid applied coating to form a seamless, UV resistant, fully adhered, durable, elastic waterproof coating applied for pitched & flat roof systems resistant to cracking and weathering.

Intended Uses:

Designed as a liquid applied waterproofing membrane applied by roller, brush, or spray applied direct to suitably primed metal, galvanizing, Chromadek or factory coated sheeting, bitumen / torch on membranes, roof tiles, facades & parapets, counter flashings, roof bolts, laps & joints, rusty metal, and previously painted surfaces.

Highly thixotropic allows good film build on horizontal and vertical surfaces. Prolongs the life of any roof surface, including bitumen/torch on membranes by creating a tightly adherent waterproof layer.

LEAKSEAL® Liquid Rubber Waterproofing provides outstanding tensile properties and unmatched dirt pickup resistance, ensuring roof surface stay clean.

Used In Many Waterproofing Applications:

- Specialty
 - Polyurethane foam roofs
 - Gutters
- Rooftop
 - General waterproofing of flat or pitched roofs
 - Highly detailed and complex roofs with limited access
 - Refurbishment & of failing roof membranes (bituminous, metal, or synthetic (TPO or PVC))
 - Maintenance of existing bituminous roofs
 - Suitable for both horizontal and vertical surfaces

Suitable substrates include concrete, cement screeds or rendering, exterior plywood, synthetic membranes such as PVC / TPO, Bituminous membranes (mineral, silver/aluminium, sand/talc), metal roofs, pre-painted surfaces)

Properties:

- One component – ready to use.
- Highly elastic and crack bridging.
- Easily re-coatable.
- Water based with no use of solvent, low odour health concerns.
- Solar reflective (In SOLAR Reflective colours only).
- Low water swelling, no blistering on concrete or bitumen.
- Resistant to impact damage and foot traffic.
- High initial elongation at 284% and 194% after accelerated weathering at 1,000 h.
- Excellent tensile strength and flexibility in cold and hot conditions.
- Very good flexibility retention after weathering.
- Outstanding exterior durability and UV resistance.
- Impervious to ponding water.
- Resistant to mildew.
- Very good adhesion to various roofing substrates.
- High resistance to dirt pick-up thanks to high hardness.

Technical Data:

Composition	Water based UV Cross Linking PURE ACRYLIC
Colour	White, cool grey & cool ivory – All colours
Pack Size	5 & 20 Lt
Density Comp. A kg / Lt	1.37
Volume Solids	52%
Yield	2 coats to achieve 0.5mm DFT 2m ² / Lt per coat @ 0.5mm WFT per coat.
Drying time – min overcoating @ 25°C	Approx. 6 hours without reinforcing Approx. 24 hours with reinforcing
Rain resistant @ 25°C	Approx. 8 hours
Full Cure	Approx. 3 days
Method of Application	Brush, roller or airless Spray
Application Temperature range min – max Relative Humidity Dew Point Substrate Moisture	15 - 30 °C Max 70% RH Min 3°C above dew point Max 5%
Storage	Store out of direct sunlight in dry conditions between 15°C and 25 °C
Shelf Life	12 months when stored as recommended in original un-opened containers
Clean Up Solvent	Water

Technical Performance Data:

Tensile Properties ASTM D 2370 10 specimens; 3.0" long x 0.5" wide x 20mil dry film Conditioned 336±12h @ 73.4±3.6°F & 50±10%RH Test Speed 1.0±0.2"/min Test Condition 73.4±3.6°F & 50±10%RH Tensile Elongation 30d 80°C	Initial Percent Elongation (break) (%)	284
	Initial Tensile Strength (psi)	216
	Final Elongation (break) (%) accelerated weathering 1,000h	194
Permeance 3 specimens, test chamber @ 23°C & 50% RH tested in an inverted position	(perms)ASTM D 1653 Method B Condition A	4
Water Swelling ASTM D 471 3 Specimens; 1" x 2" X 500um Dry Film immersed in distilled water for 168+/-4h @ 23°C	% Mass	11
Tear Resistance ASTM D 51	Kg / mm	1.8

Waterproofing: Liquid Waterproofing Coatings

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

System – PITCHED ROOF:

In all cases/project a written specification should be provided. Below is a typical guideline for LEAKSEAL® Liquid Rubber Waterproofing system.

Roof waterproofing on concrete / mineral surfaces in new construction and refurbishment projects

Build up: LEAKSEAL® Liquid Rubber Waterproofing applied in 2 coats and reinforced with LEAKSEAL® PES Fleece Reinforcing and sealed with one or two additional coats of LEAKSEAL® Liquid Rubber Waterproofing

Substrates: Concrete, metal, wood, tiles

Primers: Refer to primer table below

Layer	Product	Thickness (DFT)	Yield m ² / Lt	Yield Lt / m ²
Primer for mineral, cementitious substrates	Deep Penetrating Primer WB	50 µm	8.00	0.13
Primer for metal substrates	SpecNox Anti-Corrosive Primer	50 µm	10.00	0.10
1 st	LEAKSEAL® Liquid Rubber Waterproofing	250 µm	2.00	0.50
2 nd	LEAKSEAL® Liquid Rubber Waterproofing	250 µm	2.00	0.50

System – FLAT ROOF:

Build up: LEAKSEAL® Liquid Rubber Waterproofing applied in 2 coats and reinforced with LEAKSEAL® PES Fleece Reinforcing and sealed with one or two additional coats of LEAKSEAL® Liquid Rubber Waterproofing.

Substrates: Concrete, metal, wood, tiles.

Primers: Refer to primer table below.

Reinforcing: LEAKSEAL® PES Fleece Reinforcing is a polyester reinforcing fabric with needle punched holes for enhanced penetration and wetting of the fabric. Typically applied at areas of movement, irregular substrates, joints, cracks, seams, penetrations, and irregular details.

Layer	Product	Thickness	Yield m ² / Lt	Yield Lt / m ²
Primer for mineral, cementitious substrates	Deep Penetrating Primer WB	50µm	8.00	0.13
Primer for metal substrates	SpecNox Anti-Corrosive Primer	50µm	10.00	0.10
1 st	LEAKSEAL® Liquid Rubber Waterproofing	500µm	1.00	1.00
2 nd	LEAKSEAL® Liquid Rubber Waterproofing	400µm	1.30	0.77
Reinforcing	LEAKSEAL® PES Fleece Reinforcing			
3 rd & 4 th	LEAKSEAL® Liquid Rubber Waterproofing	500µm	1.00	1.00

* Can be applied in 2 layers to achieve more uniform appearance. Fleece must be covered

Surface Preparation:

All products must be applied on pre-primed surfaces.

In general, the following guidelines for preparation should be adhered to:

- The areas to be coated should be dry, firm, solid and free from dust, oil, fats and other contaminants.
- Laitance and loose particles must be removed thoroughly i.e. grinding / abrasive blast cleaning.
- Oils and fats, humidity can be removed by flame treating
- Substrate's moisture should not be higher than 5%

Mixing:

Prior to application container contents should be mixed well for 1 minute in order to achieve a homogeneous mixture. Take care not to entrain air during mixing.

Application:

With Fleece

LEAKSEAL® Liquid Rubber Waterproofing can be applied by airless spray or roller. If using airless spray, a roller should still be used to "work" the coating into the reinforcing fabric.

1. Apply 1st coat of LEAKSEAL® Liquid Rubber Waterproofing, allow to dry
2. Apply 2nd coat of LEAKSEAL® Liquid Rubber Waterproofing, while wet roll in the LEAKSEAL® PES Fleece Reinforcing and ensure that there are no bubbles or creases. Overlap the fleece minimum 5cm.
3. Apply 3rd thin coat right into the wet fleece to achieve required thickness, the entire application should happen while still wet. Repeat steps 2 and 3 until entire area is covered.
4. Allow to dry and apply 4th coat to cover entire area.

Without Fleece

LEAKSEAL® Liquid Rubber Waterproofing can be applied by airless spray or roller. If using airless spray, a roller should still be used to "work" the coating into the reinforcing fabric.

1. Apply 1st coat of LEAKSEAL® Liquid Rubber Waterproofing, allow to dry.
2. Apply 2nd coat of LEAKSEAL® Liquid Rubber Waterproofing.

For airless spray, a minimum 15 thou tip should be used. In cases where product needs to be thinned, a maximum of 5% clean drinking water can be added.

Caution:

- NOT suitable for substrate with rising moisture.
- Ensure temperature does not drop below the recommendation application conditions before fully cured.
- Do not allow temporary ponding between coats. Mop off any ponding water.
- Not suitable for pedestrian traffic.
- Surface should always be 3°C above the dew point.
- Application always requires a suitable primer.
- Always consult with technical department if unsure.
- Refer to product MSDS for health & safety prior to using products.
- Always wear safety clothing / protection. Respirators, eye protection and skin protection.