



TECHNICAL DATA SHEET

BITUMEN WATERPROOFER

Description

Alcolin Bitumen Waterproofer is a highly flexible bitumen emulsion which is used in conjunction with Alcolin Membrane to create a highly effective waterproofing system. It is non-toxic once dried and is ideal for waterproofing flat roofs, gutters, flashings, water reservoirs and koi ponds.

Features & Benefits

- Cold application
- Waterproof – used in pond applications
- Tough, flexible, durable
- Non-toxic – ideal for koi ponds
- Thixotropic consistency for horizontal and vertical application

Applications

- Waterproofing of flat roofs, parapets and flashings.
- Waterproofing of ponds and water reservoirs.
- Sealing of joints between different roofing materials, gutter joints, and roof screws.
- Waterproofing and protective coating for below ground foundations.

Adhesion

Concrete, masonry, cementitious screed / renders, galvanized steel, metals, clay and cement bricks, weathered bitumen and existing bituminous waterproofing.

Limitations

- Do not apply if temperature is below 5°C.
- Do not apply onto damp surfaces.
- Bitumen compounds have poor UV resistance and therefore must be over coated with a paint if exposed to sunlight or UV. Due to the tendency of bitumen compounds to bleed through and discolour paints applied over them, we recommend that one over coats with Alcolin Silver Coat or Alcolin Vinoseal. If a colour matched acrylic paint is used, apply a primer recommended by the paint manufacturer before painting.



Safety instructions

Alcolin Waterproof Emulsion is non-toxic; however, it is advisable to wear gloves in order to avoid direct skin contact. In the event of skin or eye contact, rinse thoroughly and immediately with water. Seek medical assistance if irritation or discomfort persists. Keep out of reach of children! Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

Ensure surfaces are clean, dry and free of loose materials, dust, grease, rust and other contaminants. Defects such as cracks should be repaired prior to primer application. Smooth off any sharp edges that may protrude from the surface.

- Cement plaster, concrete & masonry
Apply a priming coat of diluted Alcolin Bitumen Waterproofer to bind any powdered surface. Glazed cement surfaces should be roughened.
- Metal surfaces (new and old)
Remove any flaking material or rust with a wire brush. Apply a rust converting primer.
- Previously coated surfaces
Completely remove any old paint and apply a priming coat of diluted Alcolin Bitumen Waterproofer. Enamel painted surfaces should be sanded or wire brushed.
- Bituminous surfaces and waterproofing membrane
If applying over weathered bitumen or existing bituminous waterproofing membrane, ensure that all oxidized bitumen is removed. Apply a priming coat of diluted Alcolin Bitumen Waterproofer to bind any powdered surface.

Directions for use

- Ensure that surfaces are prepared as above.
- Stir well before use.
- Apply a primer coat followed by three coats as follows:

Primer coat

- Priming should extend at least 75mm beyond the area to be waterproofed.
- Mix 1-part clean water to 1-part Alcolin Bitumen Waterproofer and apply onto surface with a brush or roller.

First coat

- When the primer is completely dry (approximately 1 to 2 hours), apply a thick coat of Alcolin Bitumen Waterproofer to the surface at a spread rate of approximately 0.75L/m² and then impregnate the Alcolin Membrane into the wet coating. Ensure no air bubbles or creases are present. It is vitally important that the membrane is well saturated. Membrane overlaps must be a minimum of 75mm on the end laps and 50mm on the side laps.

Second coat

- Allow the first coat to dry for approx. 2-3 hours, before applying a second liberal coat to the entire area, ensuring that the membrane is well saturated.

Third coat

- Apply a third coat to obtain a smooth finish. Apply at 90° angle to the second coat.
- Allow the system to dry for at least 7 days, then protect exposed areas from UV by applying a coat of Alcolin Silver Seal
- For pond and reservoirs, allow to dry for at least two weeks. Flush with clean water before filling.

Cleaning

Tools and brushes can be cleaned immediately after use with water and soap.

Storage stability

Alcolin Bitumen Waterproofing has a shelf life of 12 months if stored in a safe, cool (below 25°C), dry place in its original moisture-tight container. Ensure the container is closed to create an airtight environment when not in use.

Product packaging

- 1L tub
- 5L bucket
- 20L bucket

Product data

i. Physical data

Type	Bitumen-rubber emulsion
Appearance	Brown viscous liquid drying to a rubberized matt black finish
Solids	Approximately 45%
Density	Approximately 1.00 g/mL
Viscosity	30 000 - 35 000 cps (thixotropic paste)

ii. Application data

Application temperature	5°C to 35°C
Coverage	2.1L/m ² (Depending on surface porosity)
Drying time (touch dry)	1-3 hours (between layers)
Full cure	Approximately 7 days @ 23°C

iii. Performance data

UV resistance	Poor
Water resistance	Excellent
Temperature service range	-10°C to 55°C