# Solseal Liquid Asphaltic Coating

## Description:

Solseal Liquid Asphaltic Coating is a solvent based, full bodied black bitumen barrier coating. When dry, the product forms an odourless and taint free bitumen film suitable for the protection of above and below ground concrete, brickwork, and blockwork.

Solseal Liquid Asphaltic Coating provides an effective waterproof, weatherproof, and corrosion resistant protective coating. It is resistant to low concentrations of alkalis and acids and can withstand prolonged oxidation. It is suitable for application to a wide variety of materials including iron and steel, lead, zinc, aluminium, asbestos, cement, concrete, stone, wood, felt, and brick and is mainly used as a protective coating for concrete structures, stone, brick, concrete screeds, and sand/cement surfaces.


- **Water and water vapour barrier.**
- **High bond strength.**
- **Cold applied, jointless membrane.**
- **Fast curing, elastic and flexible.**
- **Easily applied to difficult profiles.**
- **Provides a barrier to radon gas.**
- **Can be used in potable water systems.**

| Typical Coverage (Non Porous Surfaces) |
| --- |
| 11 $m^2/l$ |

| Packaging |
| --- |
| 5, 25 & 200 Litre Containers |

## Typical Applications:

- Roofs (non-exposed).
- Bathrooms, Kitchens & Shower Areas.
- Floor Slabs.
- Basements & Sub-Structures.
- Swimming Pools.
- Planter Boxes.
- Roof Gardens.
- Tunnels.
- Bridge Abutments.
- Steelwork.

## Cost Benefit:

- Simple and rapid application.
- Overcoat in 8-12 hours in ventilated conditions.
- Can be applied to surface dry and green concrete, without primer.
- Tins can be opened and re-sealed with no surface skinning inside the can.

## Storage & Shelf Life:

- Solseal Liquid Asphaltic Coating contains a flammable solvent, and all normal precautions against fire must be taken during both storage and use.
- Store in original container in cool dry conditions.
- Keep away from sources of ignition.
- Solseal Liquid Asphaltic Coating has a shelf life of 24 months when stored correctly.

## Installation:

As with all surface coatings, preparation of the surface is of great importance and will influence the degree of adhesion obtained and the life of the coating.

- All surfaces must be sound, stable and thoroughly clean and dry.
- Metal surfaces should be wire brushed to remove rust.
- Where long term protection is required an initial treatment of a rust inhibitive product such as red lead or zinc phosphate should be used.
- Loose or blistered paint should be removed as should tar-based paint systems.
- Newly galvanised surfaces should be roughened with a wire brush or treated with a proprietary etch primer.
- Porous surfaces should be primed with Solseal HP Primer.
- Solseal Liquid Asphaltic Coating is ready for use and should not be thinned.
- Apply by brush, sheep skin disposable rollers or airless spray.
- A minimum of two coats of Bitumen Paint should be applied, the first having been allowed to dry (normally 2-4 hours depending on weather conditions) before the second is applied.
- Since concrete and some stone surfaces may be porous, an initial primer coat of Solseal HP Primer should be applied.

## Installation *(cont.)*:

- Tools may be cleaned by using white spirit. Spillage's should be wiped off surfaces before the bitumen paint has set.

## Protection:

The membrane must always be protected by a layer of concrete, a screed of 50 mm minimum thickness, or by brickwork or blockwork. Alternatively, the membrane should be protected during backfilling by Solco Protection Board. Care should be taken to avoid membrane damage during these operations.

## Internal Tanking:

When subjected to negative water pressure, the membrane should be internally loaded by erecting a single skin of brickwork or blockwork with a minimum 20mm cavity. The cavity should be filled using an approved non-shrink grout as construction proceeds.

## Movement Joints:

The membrane should be reinforced at movement joints using Solsheet Self-Adhesive Membrane, and by applying additional layers of product in these areas. Refer to Solco Building Products for specific recommendations.

## Day Joints:

At day joints, the liquid membrane should overlap the existing cured membrane by at least 100 mm. If the lapping joint is dirty or contaminated, clean using Solcem Solklens solvent.

# Technical Data:

| Property | Value |
|---|---|
| Type of Solvent | White Spirit |
| Flashpoint | 39°C |
| Specific Gravity (At 20°C) | 0.9 |
| Viscosity (At 20°C) | 1500-2000 cPs |
| Coverage (Porous Surfaces) | 4-6 $m^2$/litre (Depending on porosity of surface) |
| Coverage (Non Porous Surfaces) | 11 $m^2$/litre |
| Drying Time (At 20°C) | 2-4 hrs |
| Service Temperature | -30°C to +70°C |
| Application Temperature Film | -5°C to +35°C. Surfaces must be free from any ice and water |
| Thickness (Per coat at 11$m^2$/l) | Wet - 0.15-0.175 mm<br>Dry - 0.1mm |
| Water Vapour Transmission *[ASTM E96]* | 1.67g/$m^2$/24 hours |
| Diffusion Coefficient for Radon | $1.7x10^{-13}$ $m^2.s^{-1}$ |
| Diffusion Length for Radon | 0.28mm |
| UV Resistance | Limited. Protect withing 28 days |

| Solseal Roadcoat Barrier System Accessories | | |
|---|---|---|
| Solcem Solklens | A solvent for cleaning resin products from tools and equipment before the resin has hardened, and for removing any residual release agent from formwork. | Tubs |
| Soldrain Double | Relieves hydrostatic pressure by channeling the ground water away from the structural waterproofing, protecting the structure. | Sheets |
| Solco HS Protection Board | A tough, reinforced flexible board, used to protect waterproofing membranes against damage by abrasive backfill materials and poured concrete. | Sheets |
| Solco XL Jointing Tape | A self-adhesive tape used for securing waterproofing membranes at overlaps edge and corner details. | Rolls |
| Solco Foil Tape | A single-sided tape for securing laps & joints. | Rolls |
| Solco Double Sided Butyl Tape | A double-sided synthetic butyl mastic tape, used for bonding waterproofing membranes. Also used for bonding SA membranes to DPCs and fixing other accessories. | Rolls |
| Solseal HP Primer | A solvent-free rubber-modified bituminous emulsion used to prime and seal porous substrates and promotes the adhesion of bituminous waterproofing systems. | Tubs |

**Further Health & Safety information can be obtained from the MSDS, which is available upon request.**

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