



## Product Data Sheet

# Duram S900

Clear, Non-Glossy, Penetrative Sealer and Waterproofing Liquid

## Description

Duram S900 is a clear, high pH, deep penetrating siloxane waterproofing solution. Duram S900 penetrates in to the tissue of porous substrates and creates a waterproofing barrier below the surface preventing the ingress of water. Duram S900 is an effective waterproofing solution and stops leaks without lifting tiles or changing the overall appearance of the surface. Duram S900 also solves the problems associated with water penetration such as corrosion of steel reinforcement, friability and binder loss of surfaces, fungal and bacteria attack and degradation due to carbon dioxide permeability. Duram S900 is capable of withstanding high pH conditions such as found in new concrete and lime based mortars and bricks. Duram S900 still allows the diffusion of vapours or 'breathing' ability of the substrate.

## Uses

The properties of Duram S900 make it ideal for the following uses:

- Waterproofing external concrete, cement, cement render, face brick, block walls, sandstone, porous pavers and other porous surfaces.
- Prevention or minimization of efflorescence and laitance (white salt spotting or leaching).
- Protection of sandstone.
- General rain water barrier.
- Assists in preventing mould and fungus growth.
- Anti-graffiti protection (sacrificial coating).

CAUTION: Sealed surfaces may be slippery when wet.

## Suitable Surfaces

Duram S900 has been used successfully on the following porous substrates when used correctly.

- Concrete, cement, cement render, block work, face bricks, porous pavers, grout (tiled areas), sand and cement tile beds, sandstone, terracotta pavers and other porous surfaces.

## Specification

The information contained in this product data sheet is typical but does not constitute a full specification as conditions and specific requirements may vary from project to project. The instructions should be considered as a minimum requirement but the applicator or contractor must use their skill, knowledge and experience to carry out additional works as may be necessary to meet the requirements of the project. Specification for specific projects should be sought from the Company in writing.

## Limitations

- » Duram S900 penetrates in to the tissue of the substrates and accordingly relies its soundness and stability.
- » Duram S900 will not bridge or seal cracks.
- » In order for Duram S900 to work effectively, sufficient product must be absorbed in to the surface to fill the voids within the substrate. Highly porous, sandy and friable surface may not contain sufficient density to allow the Duram S900 to create an adequate 'build-up' of S900 to form waterproofing barrier. Test area are highly recommended.
- » The quantity of S900 needed for a given area is subject to its density, porosity, thickness, soundness and condition which may not be apparent.

### As an Anti-Graffiti Coating

- » The surface must be very well saturated so that a layer of the cured coating lays across the surface. Inadequate saturation and coverage will negate or diminish the effectiveness of the product as an anti-graffiti coating.

## Benefits and Advantages

- Forms a waterproofing barrier without changing the overall appearance of the surface.
- Seals tile beds without lifting tiles.
- Highly economic solution.
- Long lasting protection.
- Quick drying .
- Dries clear in a flat (low gloss) finish.
- It can be re - coated.
- Using S900 is a very viable and economical first effort attempt to stop leaks.
- Provides excellent weatherproof barrier to rain and salt spray.

- Provides an anti-graffiti barrier.

## Precautions in Use

When applying Duram S900 it is strongly recommended that all safety precautions are followed as per product label and data sheet. As the product contains solvent ensure that all sources of ignition are kept away. Ensure area is well ventilated. Adequate masks should be worn when spraying. Protect surrounds against over spray. Observe all precautions on the Material Safety Data Sheet. In exposed areas, do not apply if rain is imminent and protect coating from rain and inclement weather until fully cured. As a precaution, we suggest that, at least initially, the surface may be slippery if wet.

## Priming and Surface Preparation

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

All surfaces must be clean, dry, of sound construction, stable and free of any dust, dirt, grease, oil, curing compounds or contaminants that might interfere with adhesion.

Cracks must be repaired. If mortar is suitable then use a non-shrink mortar. If flexibility is required to repair the crack, this should be done after the application of Duram S900 as the solvent may pit or slightly dissolve the sealant.

Loose grout must be removed and then replaced with sound grouting and allowed to dry.

Ensure surfaces are clean, free of other coatings such as paints and sealers and the substrate is dry.

Efflorescence and laitance should be removed by wire brush and then washed and allowed to dry.

Test areas are important as, although rare, latent salts or other chemicals may cause some discolouration.

## Application

Duram S900 can be applied by brush, roller, spray or poured.

It is essential that the substrate be well saturated, i.e. wet soaked.

For best result, apply a soaking coat of S900 and allow product to be absorbed. Immediately thereafter, while still wet, apply a second soaking application and allow the product to be absorbed. This process can be repeated several times to ensure that sufficient product has been absorbed. The product should be, in the first instance, applied wet on wet. Then allow the product to dry for 24 hours and apply a final soaking coat.

If the product is to be used as an anti-graffiti protection coat, follow the above procedure but ensure sufficient product is used to give a film across the surface.

## Coverage

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

As a general guide the coverage rate for Duram S900 is:

- Ceramic tiled areas: 6m<sup>2</sup> per Lt - concentrated on the grout lines.
- Terracotta tiled areas: 3m<sup>2</sup> per Lt per coat.
- Face brick: 4m<sup>2</sup> per Lt per coat.
- Highly porous areas: 2m<sup>2</sup> to 3m<sup>2</sup> per Lt per coat.
- Anti-Graffiti Coating: 2m<sup>2</sup> to 3m<sup>2</sup> per Lt per coat.

Note: the required use of product is dependent upon the type, porosity and profile of the surface. The above is given as a guide only. Test areas are recommended.

Our recommendation is to err on the use of additional material as the initial absorption, wet on wet, is very important. Once cured, the absorption of additional material is greatly reduced.

## Colours

Duram S900 is a clear product and dries to a low gloss.

## Drying and Curing

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

At 25°C and 50% RH (per coat)

- Touch dry: 2 to 4 hours
- Set: 4 to 6 hours
- Full cure: 12 to 24 hours.

Service Temperature: 0°C to 50°C

Application Temperature: 5°C to 30°C

## Storage

Duram S900 should be stored in a cool, dry place. Keep all sources of ignition away from the product. Store in well sealed metal containers. Shelf life is up to 12 months in unopened or undamaged containers. Available in 4 Lt and 15 Lt pails.

## Clean Up

All tools and equipment should be cleaned in Duram Solvent as soon after completion as practical.

## Tiling, Topping or Top Coating

Not recommended as product is usually left exposed. If area is to be tiled or topped, then we would recommend the use of Duram's conventional waterproofing membranes.

## Safety & Precautions

Sealed surfaces may be slippery when wet. The use of Solvent resistant gloves, mask and eye protection is recommended. Observe the safety precautions on the product data sheet and material safety data sheet.

It is a class 3 dangerous goods must be declared prior to the transportation of the product.

Product is flammable. Keep all ignition sources away.

For full safety data refer to the products Material Safety Data Sheet. Observe precautions as per label.

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### Conditions of Use and Disclaimer

The information contained in this Material Data Sheet is given in good faith based upon our current knowledge and does not imply warranty, express or implied. The information is provided and the product is sold on the basis that the product is used for its intended purpose and is used in a proper workmanlike manner in accordance with the instructions of the Product Data Sheet in suitable and safe working conditions. Under no circumstances will the Company be liable for loss, consequential or otherwise, arising from the use of the product.

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