



HYDROSEAL

PRODUCT DESCRIPTION

A styrene butadiene rubber emulsion based product, designed for use on & in concrete.

PRODUCT FEATURES

- Resistance to water & water vapours
- Improves toughness & flexibility in concrete
- Improves concrete resistance to frost & certain chemicals
- Reduces the dusting effect of concrete
- Greatly improves adhesion of old concrete to new when correctly used
- Quick drying with no residual odour

TECHNICAL INFORMATION

Colour: Dries to transparent film
 Appearance: Milky white liquid
 Generic type: Styrene butadiene rubber emulsion
 Pigment type: None
 Spreading rate: 10 - 14m²/litre depending on surface
 Solvent: Water
 Mix ratio: Single pack ready for use
 Packaging: 1 litre, 5 litre, 20 litre plastic containers

TYPICAL PROPERTIES

	<i>Normal Concrete</i> kPa	<i>Hydroseal Grout</i> kPa
Adhesion to wet concrete	70	3 450
Adhesion to dry concrete	310	1 380
Adhesion to wet steel	0	1 590
Adhesion to dry steel	0	1 310
Tensile strength wet	1 800	7 950
Tensile strength dry	3 050	4 350
Flexural strength wet	5 800	9 600
Flexural strength dry	7 100	10 600

SURFACE PREPARATION

Blast cleaning of substrate is the recommended method. On concrete substrates, chemical cleaning & etching, using Acid Etch, followed with a fresh water rinse, also produces good results. Allow the substrate to dry prior to the application of Hydroseal.

Concrete: All loose & unbound products are to be removed, prior to the application of Hydroseal. The substrate must be firm & free of oil & grease contaminants.

APPLICATION

Water resistant renderings for interior & exterior walls & basements.
 Damp resistant layers.
 Waterproofing of flat roofs & balconies.
 Industrial flooring, screeds & toppings.
 Nosing for stairs, indoors & outdoors.
 Floors for dairies, food factories, fertilizer stores where improved chemical resistance is required.
 Lining of effluent ducts, tunnels, etc.
 Water resistant adhesives for tiles, aggregates, glass, steel, etc.
 Screeds for bathrooms & showers.

For dam walls, concrete slabs & floor screeds, add 1 litre Hydroseal for every 5 kilograms cement.

For thin screeds & tile grouting, increase mix to 1.5 litre Hydroseal to 5 kilograms cement.

For leaking walls, mix 1.5 litre Hydroseal with 5 kilograms cement & brush apply this mixture. This mixture should be applied to slightly damp surfaces, not wet. Allow 8 hours to dry before applying a second coat. The spreading rate varies with porosity.

Brush and Roller: Suitable as supplied
 Clean up: Do not allow to dry on or in equipment, wash immediately with water

ENVIRONMENT

It is recommended that application be confined to the following:

Surface temperature: Min. 5°C Max. 40°C
 Ambient temperature: Min. 5°C Max. 40°C
 Relative humidity: Min. 0% Max. 85%

Or at least 3°C above Dew point

Do not leave the container open when not in use, as skin forms on the surface.

DRYING TIME

<i>Substrate Temperature</i>	<i>Touch Dry</i>	<i>Hard Dry</i>
5°C	6 hours	24 hours
15°C	4 hours	18 hours
20°C	2 hours	12 hours
25°C	1 hour	8 hours
30°C	30 minutes	6 hours

OVERCOATING TIMES

5°C: 16 hours
 15°C: 8 hours
 20°C: 4 hours
 25°C: 2 hours
 30°C: 1 hour

STORAGE AND HANDLING

Store away from direct sunlight & severe cold. Do not store below 10°C.

Shelf life: 18 months in original sealed containers.

LIMITATIONS

At no time should Hydroseal be applied outdoors in inclement weather or before 9 am & after 2pm in winter.

SAFETY PRECAUTIONS

No known problems resulting from contact with skin, however remove as soon as possible with soap and water. Avoid ingestion and contact with eyes. If ingested seek medical attention. Do not induce vomiting. If paint contact is made with eyes, rinse eyes well with water and seek medical attention. Do not smoke when painting. Ensure good ventilation during painting and drying.

KEEPOUTOFREACHOFCHILDREN.

Information Provided is based on Laboratory evaluations and data believed to be reliable.
 Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for their own use.
 It is not to be considered a guarantee of the products properties.

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