

Hardac Acrylic Sealer

Low viscosity penetrating sealer
for concrete and masonry

hd. Sealer ACL

About this product

Hardac Acrylic Sealer is a colourless low viscosity penetrating sealer for concrete, masonry and brickwork surfaces. It is based on a solution of pure acrylic resin in aromatic solvents. It will reduce the permeability of the substrate to water and salt solutions in mist or liquid forms. The acrylic resin has excellent external weathering and anti-abrasion properties and when properly applied will not significantly affect the appearance of the treated surface. The concept is to achieve an 'in-surface' seal with no material build up on the surface.

Hardac Acrylic Sealer is a suitable for application to both internal and external concrete, brickwork, masonry, cement plasters, renders and screeds. It is also an excellent sealer for exposed aggregate finishes, concrete floor screeds and porous toppings. When used as a floor sealer it will improve the chemical resistance of the concrete and the wear resistance therefore reducing the tendency of concrete floors to dusting.

For surfaces exposed to severe weather conditions a combined treatment of one of two coats of Aquapel WR followed by one or two coats of Hardac Acrylic Sealer has proved to be an ideal treatment for brickwork, masonry and reinforced concrete surfaces in reducing water penetration ensuring that the rate of future deterioration is reduced.

Application

Surface preparation

All surfaces must be clean, dry, free from oil contamination and sound before the sealer is applied. Concrete should be at least 14 days old before application and all traces of laitence, shutter release or curing membrane should be removed. The moisture content must not exceed 6% when tested with a Protimeter or have a relative humidity at the slab surface above 75% when tested with a hygrometer.

Old weathered surfaces should be wire brushed to move lichen, dust and any loose or flaky material. For large areas water jetting or grit blasting may be more effective. After applying water allow at least 7 days of dry weather and make good all cracks and spalled surfaces before applying the sealer.

Surface application

Apply evenly by brush or non-atomising spray. Do not over apply and brush out any runs which may occur. After about 10 minutes the material should have soaked into the surface. Further coats should be applied until no more material is absorbed. Two coats are normally sufficient although 3 coats may be needed on very porous surfaces. Allow 1-3 hour intervals between coats. Avoid over-treating as this will give a glazed effect.

Note: Do not apply Hardac

Acrylic Sealer to Mulsifix Fairing Coat.

Coverage

Approximate coverage is 8-16m² per litre per coat.

Note: Due to the possible risk of solvent retention resulting in the emission of fumes, this product must not be applied to very porous substrates in confined areas or areas without adequate ventilation.

If in doubt, consult our

Cleaning

Clean all brushes and tools with suitable solvent

Abrasion resistance

Concrete surfaces that are particularly liable to abrasion, such as factory and warehouse floors, spillway aprons and concrete carriageways, will benefit greatly from a coating of Hardac Acrylic Sealer over conventional types of surface hardener. Abrasion tests on different quality concrete mixes have given the following results:

Water/cement ratio of concrete mix	Depth of abrasion (mm) (15 minute cycle)	Control: no surface treatment	2 coats 20% sodium silicate solution	2 coats Hardac Acrylic Sealer
0.65	1.18	0.89	0.26	
0.52	0.78	0.51	0.12	
0.44	0.54	0.40	0.08	

* C & CA Abrasion machine, ref R Chaplin (unpublished work) Test results from Sadegzadeh and Kettle, Aston University. Concrete, May 1987.

Storage

Minimum shelf life is 12 months. Replace lid immediately after use. Once opened, use the material within 2 weeks. Store in a cool, dry place.

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Packaging and supply

Hardac Acrylic Sealer is packed in 5 litres, 25 litres and 200 litres non-returnable containers.

Safe handling

Do not apply with an atomising spray gun or in confined spaces. Areas must be well ventilated.

Hardac Acrylic Sealer is flammable-contents have a flash point greater than 32°C. In the event of fire use foam, dry chemical, carbon dioxide (CO₂) extinguishers or water fog appliances. For further information on safe handling please refer to the Product Safe Handling Guide.

Health and safety

Contact with the skin must be avoided - wear rubber gloves and protective clothing. If accidentally split on the skin, remove immediately with a dry rag and cleanse with proprietary cleansing creams. If product enters the eye, wash thoroughly with water and seek medical advice if discomfort continues.

Quality assurance

A policy of strict quality control has always been followed and the requirements of all relevant test standards are strictly adhered.

Technical service and representation

We can provide technical service at the specification stage and/or during application through our Technical Department or Laboratory. Detail specification or further information can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.



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To the best of our knowledge and belief, the information contained in this leaflet is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Test results shown reflect typical figures based on laboratory testing under

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