

# SOLVENT-BASED ACRYLIC CONCRETE SEALER

# HARDCOAT

## TECHNICAL DATA

### 1.0 DESCRIPTION

HARDCOAT is a solvent-based acrylic resin solution for use on concrete (normal and coloured - see precautions), masonry & slate to seal the surface. It is used to put a clear glaze on ground/polished concrete floors, exposed aggregate, concrete roof tiles, imprinted (stamped) concrete drives, paths, etc. It helps maintain the surface clean and prevent pigment leach-out. HARDCOAT has excellent UV and weather resistance. For extremely porous surfaces, SAME DAY SEALER is preferred as fewer coats will be required for complete sealing.

### 2.0 PHYSICAL PROPERTIES

2.1. Colour	Clear. Dries to a satin finish depending on surface roughness. Also available in grey (refer HARDCOAT Grey data sheet).
2.2. Specific Gravity	0.90
2.3. Flash Point	24°C. Flammable. Avoid all sources of ignition.
2.4. Viscosity	Low
2.5. Min. Application Temp.	5°C substrate temperature.
2.6. Toxicity	Poisonous. Contains aromatic hydrocarbon mixture including Xylene. Non-toxic when completely dry. MSDS available on request.
2.7. D.G. Classification	3 (Resin Solution Flammable, UN 1866)
2.8. Shelf Life	Over 1 yr. in original sealed container.
2.9. Coverage	Exposed Aggregate: 4 m <sup>2</sup> per litre per coat. Broomed Surface: 7 m <sup>2</sup> per litre per coat. Trowelled Surface: 12 m <sup>2</sup> per litre per coat. (Coverage is approximate depending on surface porosity and application method)

### 3.0 USES

HARDCOAT is used to put a clear glaze on concrete and masonry surfaces such as footpaths, driveways, lock-ups, garages, industrial floors, concrete roof tiles and other concrete articles, including exposed aggregate panels, etc. Also for use on stonework to 'lift' the colour & slate sealing but avoid excess application.

HARDCOAT provides a weatherproof (but not waterproof), stain resistant and dustproof sealer. It may be used to seal dusting and porous surfaces to help against further degradation. HARDCOAT is formulated to enhance the beauty of concrete surfaces.

HARDCOAT is resistant to rain, sun, water and grease offering excellent durability with good colour retention and clarity. HARDCOAT is non-yellowing.

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## TECHNICAL DATA Continued

### 4.0 BENEFITS

HARDCOAT offers the following benefits and advantages:

- Touch dry in 30 minutes. Can be opened to foot traffic in one to 2 hours (exterior application with good drying conditions at 20°C - one coat applications. Additional coats must be allowed to dry completely, approximately 12 hours under good drying conditions before being opened to traffic).
- Highly weather resistant, providing a clear, tough, easy to clean film.
- Excellent UV stability to prevent yellowing in exterior applications.
- Provides a dustproof surface.
- Dries to a low-medium sheen depending on surface roughness and number of coats applied. Additional coats can be applied to increase sheen (up to 3 coats in total).
- May be used on interior concrete surfaces (good ventilation required).

### 5.0 APPLICATION INSTRUCTIONS (read in conjunction with product label)

- 5.1. The surface to be treated must be clean and dry prior to application (i.e., uncoated and unsoiled). Stains, oil, grease and any other surface contaminants must be removed. Old stains not removed from the surface will be visible after the film dries and difficult to remove as they will be trapped under the coating.
- 5.2. New concrete should be allowed to hydrate and dry for at least 14 days, preferably 28 days. Film-forming curing compounds must be removed before application of HARDCOAT.
- 5.3. Very dense new concrete surfaces should be 'degazed' by washing with a dilute solution of Hydrochloric or MISTIC Acid, washed thoroughly to remove all acid and allowed to dry. HARDCOAT is not suitable for application to non-porous surfaces, including glazed surfaces such as ceramic tiles, where it cannot penetrate the substrate.
- 5.4. Porous and/or coloured concrete pavers should be washed with MISTIC ACID, rinsed well and allowed to dry before applying HARDCOAT.
- 5.5. The surface must be as dry as possible to permit maximum penetration of HARDCOAT. Do not apply outdoors if rain or dew likely within 12 hours of application. Wet or damp substrates or exposure to rain or dew can cause adhesion problems or discolouration (white or cloudy appearance).
- 5.6. Always test the HARDCOAT as per step 6.1 before proceeding. Apply 1 - 2 coats of HARDCOAT as supplied, depending upon surface absorbency and sheen requirements. Two thin coats will give superior performance to one thick coat. Additional thin coats may be applied depending on substrate porosity and requirements. Apply the additional coat to the test area and allow to dry completely, then check if resulting appearance is acceptable. Use a solvent resistant roller, brush or airless sprayer to apply. The first coat must be completely dry before application of the second coat. Usually 12 hours is sufficient under good drying conditions (warm weather and air movement).
- 5.7. Completed application must be completely dry before opening to foot or vehicle traffic. This is a minimum of 12 hours from application of the last coat, preferably overnight. Protect application from rain, water, dew, etc. until completely dry.

Clean up with HARDCOAT Solvent or Xylene.



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## TECHNICAL DATA Continued

### 6.0 PRECAUTIONS

- 6.1. Due to the surface variations inherent in concrete surfaces, slate and masonry products, **applicator must test HARDCOAT in a small inconspicuous area before proceeding with full application** to determine if suitable for the particular application and/or our information is applicable in a particular circumstance. Specifier and user shall determine suitability for a specific application and assume all responsibilities in connection therewith. Determine required sheen level and sealing effectiveness by applying one, two or more coats before proceeding with complete application. Substrate composition may result in random variations in porosity, thereby affecting coverage, sheen levels and sealing effectiveness. Coverage rates must be adjusted to compensate for the resulting penetration. Additional coats may be required to provide effective sealing. Note that being a clear acrylic, HARDCOAT will darken surfaces to which it is applied, and the effect will be greater with additional coats. Uneven substrate composition or colour will not be rectified by applying HARDCOAT to the surface.
- 6.2. Avoid excess coating as the surface may become glossy, and therefore slippery in the wet. For better slip resistance, it is possible to add grit to the penultimate coat of HARDCOAT using dry, white, silica sand or add HARDCOAT Slip Reducing Additive into HARDCOAT before application (stir well regularly) Refer to separate HARDCOAT SRA data sheet.
- 6.3. HARDCOAT is not a waterproof membrane and is not to be used as such.
- 6.4. Being only a thin coating, HARDCOAT will wear, but can easily be overcoated, as it is resoluble. Wear rate will depend on the substrate and type of traffic. For vehicle traffic, HARDCOAT will wear more quickly, especially in areas where wheels turn or where traffic is restricted to one location (such as a driveway) and where forklifts operate. For flooring applications, any items dragged across the HARDCOAT surface will cause the surface to be scratched and wear more quickly. Before repairing damaged areas or overcoating with more HARDCOAT, clean thoroughly and allow to dry.
- 6.5. Do not apply HARDCOAT if the temperature of the substrate is below 5°C. Check drying time if applied indoors and allow extra time before opening floor to traffic. Ensure good through ventilation (flame proof mechanical if required) during and after application until completely dried. Protect from rain, moisture, etc. until each coat is completely dry. For porous and/or coloured surfaces, protect from water contact until all the required coats have been applied and dried completely.
- 6.6. Soft rubber tyres, such as forklift tyres, may mark HARDCOAT if allowed to skid on the treated surface.
- 6.7. HARDCOAT contains a mixture of aromatic hydrocarbon solvents and must be treated with care. Use in well ventilated areas. Avoid inhalation of fumes. Highly flammable - do not smoke. Keep containers sealed and away from ignition sources and heat. Wear protective clothing and avoid skin contact. If applied indoors, the area must be well ventilated and if necessary, wear self-contained breathing apparatus. If using fans for ventilation, ensure they are of a type that cannot generate sparks. Read and follow all details on the product label and safety label before use. Refer to Product Safety Data Sheet for complete handling and safety information.

### 7.0 PACKAGING

4, 20 and 200 litres.



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