

# 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), 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 good UV and weather resistance.

### 2.0 PHYSICAL PROPERTIES

2.1. Colour	Clear. Dries to a satin finish.
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 dry. MSDS available on request.
2.7. D.G. Classification	3.1c
2.8. Shelf Life	Over 1 yr. in sealed container.
2.9. Coverage	Broomed Surface: 7m <sup>2</sup> per litre per coat. Trowelled Surface: 12m <sup>2</sup> per litre per coat. (Coverage is approximate depending on surface porosity)

### 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, 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.

### 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 (external application with good drying conditions at 20°C).
- Resists weather, providing a clear, tough, easy to clean film.
- Contains a UV stabiliser to prevent yellowing in exterior applications.
- Provides a dustproof surface.
- Dries to a low-medium sheen. Additional coats can be applied to increase sheen.
- May be used on internal concrete surfaces (good ventilation required).



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# HARDCOAT

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## TECHNICAL DATA Continued

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### 5.0 APPLICATION

- 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.
  - 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 and allowed to dry.
  - 5.4. The surface must be as dry as possible to permit maximum penetration of HARDCOAT. Do not apply externally if rain or dew likely within 12 hours of application.
  - 5.5. 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 requirements. Use a 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).
  - 5.6. Allow at least 1 - 2 hours before opening treated areas to foot traffic, and preferably overnight before opening to wheeled traffic. Protect application from rain, water, dew, etc until completely dry.
- Clean up with HARDCOAT Solvent or Xylene.

### 6.0 PRECAUTIONS

- 6.1. Avoid excess coating as the surface may become glossy, and therefore slippery in the wet. For better slip resistance, it is possible to "sand" the penultimate coat of HARDCOAT using dry, white, silica sand or incorporate slip-reducing additives into the HARDCOAT during application (stir well regularly).
  - 6.2. Being only a thin coating, HARDCOAT will wear, but can easily be overcoated, as it is resoluble.
  - 6.3. Do not apply HARDCOAT if the temperature of the substrate is below 5°C. Check drying time if applied internally and allow extra time before opening floor to traffic. Ensure good through ventilation (mechanical if required) during and after application until completely dried.
  - 6.4. Due to the surface variations inherent to coloured concrete surfaces, slate and masonry products, test HARDCOAT before applying. Determine required sheen level by applying one, two or more coats before proceeding with complete application. Additives and fillers used in concrete may result in random variations in porosity, thereby affecting coverage and sheen levels. Additional coats may be required to provide proper surface treatment. Note that being a clear acrylic, HARDCOAT will darken surfaces to which it is applied, and the effect will be greater with additional coats.
  - 6.5. Soft rubber tyres, such as forklift tyres, may mark HARDCOAT if allowed to skid on the treated surface.
  - 6.6. HARDCOAT contains a mixture of aromatic hydrocarbon solvents and must be treated with care. Use in well ventilated areas. Avoid excessive inhalation of fumes. Do not smoke. Keep containers sealed and away from ignition sources and heat. Wear protective clothing and avoid skin contact. If applied internally, the area must be well ventilated and if necessary, wear self-contained breathing apparatus.
- Refer to Material Safety Data Sheet for handling and first aid information.

### 7.0 PACKAGING

4, 20 and 200 litres.



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