

# SOLVENT BASED ACRYLIC CONCRETE SEALER

## HARDCOAT TEXTURED

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### TECHNICAL DATA

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#### 1.0 DESCRIPTION

HARDCOAT TEXTURED is a solvent-based acrylic resin solution for use on concrete (normal and coloured - see precautions), in trafficable areas to seal the surface and put a clear gritty (textured) glaze on ground or polished concrete floors, drives, paths, etc. where slipperiness in the wet may pose a problem. HARDCOAT TEXTURED has a much higher coefficient of friction than standard HARDCOAT, while still helping to maintain the surface clean and prevent pigment leach-out.

HARDCOAT TEXTURED has excellent UV and weather resistance. For very porous surfaces, SAME DAY SEALER TEXTURED 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.
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	Class 3 (Resin Solution Flammable, UN 1866)
2.8	Shelf Life	Over 1 yr. in original sealed container.
2.9	Coefficient of friction	See Section 4 (Benefits).
2.10	Coverage	8 – 12 m <sup>2</sup> per litre per coat (trowelled or honed surface).

Coverage is approximate depending on surface porosity. Note that normally HARDCOAT TEXTURED is not required for rough surfaces or exposed aggregate, which have inherently good slip resistance.

#### 3.0 USES

HARDCOAT TEXTURED is used to put a clear, gritty non-slip glaze on concrete and masonry surfaces such as footpaths, driveways, lock-ups, garages, industrial floors, or any trafficable masonry surface where slip resistance could pose a problem if using a standard sealer, especially in the wet.

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

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

# HARDCOAT TEXTURED

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## TECHNICAL DATA (continued)

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### 4.0 BENEFITS

HARDCOAT TEXTURED offers the following benefits and advantages:

- Touch dry in 30 minutes. Final coat of HARDCOAT TEXTURED must be allowed to dry completely, approximately 12 hours under good drying conditions (20°C, exterior application) before being opened to traffic.
- Highly weather resistant, providing a clear, tough, easy to clean film with a transparent grit to minimise slipperiness, especially in the wet.
- Excellent UV stability to prevent yellowing in exterior applications.
- Provides a dustproof and slip resistant surface.
- Dries to a low-medium sheen depending on surface roughness and number of coats applied.
- May be used on interior concrete surfaces (good ventilation required).
- Is much less slippery than standard sealers, especially in the wet. Tested by WSP-Opus according to AS/NZS3661.1: 1993 Appendix A "Method for the measurement of coefficient of friction on wet surfaces".

#### Coefficient of Friction

Surface	Coefficient of friction
Unsealed concrete, with 80 grit ground finish	0.64 - 0.68
Concrete ground as above + 2 coats Hardcoat	0.40 - 0.46
Concrete ground as above + 1 coat Hardcoat + 1 coat Hardcoat Textured	0.47 – 0.49
Concrete ground as above + 2 coats Hardcoat Textured	0.51 – 0.54

The above table is indicative of the improvement in slip resistance that can be expected compared to standard HARDCOAT. The choice of which of the above systems to use will depend on both the degree of slip resistance required and the final appearance of the coating. Carrying out a trial is highly recommended.



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## TECHNICAL DATA (continued)

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### 5.0 IMPORTANT INFORMATION (read before starting application)

This data sheet provides instructions and details based on an assumption that the substrate is fit-for-purpose and free from defects and conditions that might impact the application or performance of the coating over time. For further details on this, please read the “**Stratmore Guide to Sealing Concrete**” available for download from our website.

Concrete is a porous material. Water can enter concrete by many different routes such as from rain, ground water run-off, below ground water, etc. When water enters concrete, it escapes through the pores and capillaries at different rates depending on the porosity of the concrete, the temperature, wind conditions, whether the water is transient (such as rain) or permanent (such as below ground water table), etc. Concrete that appears dry at the surface may be saturated with water further into the substrate. Applying a concrete sealer to concrete that contains excess moisture (water), depending on how thickly the sealer is applied (and the number of coats), significantly reduces or stops water vapour from being able to escape through the top (sealed) surface of the concrete. This can lead to failure of the coating, including discolouration (white/cloudy appearance or blushing), delamination (the sealer comes away from the surface), reduced service life, etc. It is therefore important to read all precautions under section 6 before starting application.

### 6.0 PRECAUTIONS

The following precautions are provided to guide the applicator/specifier where ideal conditions may not exist. We strongly recommend determining both the substrate moisture levels and performing a test for suitability as detailed below prior to starting the project application.

#### Determining Substrate Moisture

6.1 Before coating concrete or other suitable substrates, it is vital that you establish how much moisture it contains. The “**Stratmore Guide to Sealing Concrete**” (available for download from our website), lists methods and ways to determine how much moisture may be in the substrate. We strongly recommend that the applicator and/or specifier reads this document **before** starting application. Problems with the application of HARDCOAT TEXTURED associated with excess moisture (as noted above and detailed in the guide) are not a product performance related issue and must be addressed by the applicator/specifier.

#### Performing a Test Application

6.2 Due to the surface variations inherent in concrete surfaces, slate and masonry products, **applicator must test HARDCOAT TEXTURED 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. Where moisture may be an issue, monitor the test area for as long as practicable prior to starting the project application. Specifier and user shall determine suitability for a specific application and assume all responsibilities in connection therewith.



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# HARDCOAT TEXTURED

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## TECHNICAL DATA (continued)

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### PRECAUTIONS (continued)

#### Performing a Test Application (continued)

- 6.3 Determine required sheen level, amount of texturing and sealing effectiveness by applying two or three coats (a three-coat application shall consist of one coat HARDCOAT and two coats HARDCOAT TEXTURED) 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 and to ensure the texturing is properly encapsulated. A single coat of HARDCOAT TEXTURED will not encapsulate the texturing sufficiently and leave it unbound on the surface causing it to be quickly worn away.
- 6.4 Note that being a clear solution acrylic, HARDCOAT TEXTURED 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 TEXTURED to the surface.

#### Application Temperature

- 6.5 Do not apply HARDCOAT TEXTURED if the temperature of the substrate is below 5°C. Substrate temperature must be 3°C above the dew point. 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.

#### Wear & Recoating

- 6.6 HARDCOAT TEXTURED will wear and the texturing may slowly be diminished, but it can easily be overcoated. Wear rate will depend on the substrate and type of traffic. For vehicle traffic, HARDCOAT TEXTURED will wear more quickly, especially in areas where wheels turn or where traffic is restricted to one location (such as a driveway or entranceway) and where forklifts operate. For flooring applications, any items dragged across the HARDCOAT TEXTURED surface will cause the surface to be scratched and wear more quickly. Before repairing damaged areas or overcoating with more HARDCOAT TEXTURED, clean thoroughly and allow to dry. When recoating, do not exceed three coats in total (taking into account the existing coating and new coating). Also refer section 7 Application as this section also applies to recoating an existing application.

Soft rubber tyres, such as forklift tyres, may mark HARDCOAT TEXTURED if allowed to skid on the treated surface.

#### General Precautions

- 6.7 HARDCOAT TEXTURED is not a waterproof membrane and is not to be used as a sealer in structures containing water.



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# HARDCOAT TEXTURED

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## TECHNICAL DATA (continued)

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### PRECAUTIONS (continued)

#### General Precautions (continued)

- 6.8 HARDCOAT TEXTURED contains a mixture of aromatic hydrocarbon solvents and must be handled 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 APPLICATION INSTRUCTIONS (read in conjunction with product label)

- 7.1 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 or coatings 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.
- 7.2 **New concrete:** Allow concrete to hydrate and dry for at least 14 days, preferably 28 days. Film-forming curing compounds must be removed before application of HARDCOAT TEXTURED.
- 7.3 **New and Existing concrete:** Very dense concrete surfaces should be 'deglazed' by washing with a dilute solution of Hydrochloric or MISTIC Acid, washed thoroughly to remove all acid and allowed to dry. HARDCOAT TEXTURED is not suitable for application to non-porous surfaces, including glazed surfaces such as ceramic tiles, where it cannot penetrate the substrate.
- 7.4 Porous and/or coloured concrete pavers should be washed with MISTIC ACID, rinsed well and allowed to dry before applying HARDCOAT TEXTURED.
- 7.5 The surface must be as dry as possible to permit maximum penetration of HARDCOAT TEXTURED. Do not apply outdoors if rain or dew is likely within 12 hours of application. Wet or damp substrates or substrates with excessive moisture content (see section 6.0) or exposure to rain or dew can cause adhesion problems or discolouration (white or cloudy appearance).
- 7.6 **Stir HARDCOAT TEXTURED well, before and during use.** Recommended application is by short (5mm) nap solvent resistant roller and tray, ensuring there is no clumping of the texturing. Check especially on the edges of the roller strokes and overlap well. Do not use a longer nap roller as it may accumulate texturing within the nap, causing random excessive texturing in some areas during application. The ideal finish is obtained when the texturing appears completely random. It is recommended to apply in one direction and finish off at right angles. Brush application is only suitable for small areas and should be carried out with due care and skill, so as not to leave a "streaked" pattern with alignment of the texturing particles. HARDCOAT TEXTURED may not be applied by spray.



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# HARDCOAT TEXTURED

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## TECHNICAL DATA (continued)

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### APPLICATION INSTRUCTIONS (continued)

- 7.7 Read and follow the instructions under section 6.0 before proceeding with application. Apply 2 coats of HARDCOAT TEXTURED as supplied, depending upon surface absorbency, slip and sheen requirements and for very porous substrates, apply one coat HARDCOAT standard followed by 2 coats HARDCOAT TEXTURED. Apply as thin coats at the tested coverage rate. Thin coats will give superior performance to thick coats. Bear in mind the warnings about excessive moisture in the substrate (see section 6.0 for details) when three coats are applied. Allow to dry completely, then check if resulting appearance is acceptable.
- 7.8 **Application of additional coats:** Each coat must be completely dry before application of next coat. Usually 12 hours is sufficient under good drying conditions (warm weather and air movement).
- 7.9 Finished 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.

## 8.0 PACKAGING

4 and 20 litres.



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