

PRODUCT DESCRIPTION

Stonseal GS6 is a two-component, high performance, aliphatic polyurethane coating. Stonseal GS6 combines superior chemical and abrasion resistance with excellent adhesion and weatherability.

USES, APPLICATIONS

Stonseal GS6 is a general service urethane coating designed to improve cleanability, increase stain resistance and abrasion resistance, and improve UV resistance. It may be applied to vertical and horizontal surfaces. A few typical uses for Stonseal GS6 are:

- UV resistant top coat
- Increased abrasion resistance coat
- Increased stain resistance coat

PRODUCT ADVANTAGES

- Maximum ultraviolet light resistance
- Easily cleaned surface for simple maintenance
- Excellent abrasion resistance
- May be brush, roller or spray applied

PACKAGING

Stonseal GS6 is packaged in units for easy handling. Each unit consists of:

- 1 foil bag of isocyanate curative
- (1) 1 gallon can of polyol resin

COVERAGE

Approximately 400 sq. ft./37 sq. m per unit per coat at 3 mil dry film thickness (DFT) over a smooth substrate.

STORAGE CONDITIONS

Store both components of Stonseal GS6 between 60 to 85°F/16°C to 30°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life is one year in the original, unopened container.

COLOR

Stonseal GS6 is available in a clear gloss, pigmented and clear flat options.

PHYSICAL CHARACTERISTICS

VOC Content

(ASTM D-2369)

Pigmented	.20 lbs./gal. (240 g/l)
Clear gloss	1.9 lbs./gal. (225 g/l)
Clear flat	3.2 lbs./gal. (385 g/l)

Percent Solids

Pigmented	.82%
Clear gloss	.74%
Clear flat	.63%

Pot Life @ 77°F/25°C

Pigmented/Clear gloss/Clear flat	1/2 hour
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Cure Rate @ 77°F/25°C

	12 hours
	for a tack-free surface
	24 hours
	for normal operations

Fire Resistance of Dry Film Self-extinguishing

Abrasion Resistance003 gm max. weight loss
(ASTM D-4060, CS-17)

Note: The above physical properties were measured in accordance with the referenced standards.

SURFACE PREPARATION

Preparing Stonhard Floor Systems

Before coating a Stonhard floor, the surface must be clean and dry. If applying Stonseal GS6 over an epoxy coating, it is important to allow the epoxy to cure for at least 12 hours at 77°F/25°C. The surface must then be clean and free of dust and bond inhibiting particles. The Stonhard floor is now ready to be coated.

PRIMING

For use over a Stonclad floor, Stoncrest GS3 or Stonkote GS4 is applied prior to the Stonseal GS6. No primer is necessary for use over sealed Stonhard floor systems.

MIXING

Stonseal GS6 is supplied in pre-measured quantities. Mix the entire unit. Mixing must be achieved by mechanical means. Mechanical mixing should be done using a heavy-duty, slow-speed drill (400 to 600 rpm) with a Jiffy Mixer. **Open the resin can and thoroughly pre-mix the Part B in its original container to**

assure the suspension of solids. Pour the contents of resin into an appropriate mixing container; add isocyanate curative and mix to a uniform consistency for a period of 1 to 2 minutes. Avoid high-speed mixing that will entrain air bubbles. Thorough mixing of the two components is required.

POT LIFE

After mixing, Stonseal GS6 clear gloss and pigmented have working times of approximately one hour at 77°F/25°C. Stonseal GS6 clear flat has a working time of approximately 0.5 hours at 77°F/25°C. Do not combine more than 2 mixes in a single container.

APPLYING

Stonseal GS6 should be applied at ambient and surface temperatures of 60 to 85°F/16 to 30°C and humidity below 80%. This coating may be applied immediately after mixing the two components. Stonseal GS6 may be applied by airless sprayer, brush or a medium nap roller. **Do not squeegee the material prior to rolling.** During application, suitable NIOSH/MSHA approved respirators should be worn by all personnel in the area. Stonseal GS6 may be applied at thicknesses from 2 to 5 mil wet film thickness.

Note: For Stonseal GS6 monitor the coverage carefully and roll the product thoroughly. Do not finish-roll this product as it can cause roller marks, gloss variations and micro-bubbles.

Any questions regarding the application of Stonseal GS6 should be directed to Stonhard's Technical Service Department.

CURING

The surface of Stonseal GS6 will be tack-free in 12 hours at 77°F/25°C and may be recoated in 12 hours. The coated area may be put back into service in 24 hours. Ultimate physical and chemical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Apply only on a clean, sound, properly prepared substrate.
- Application and curing times are dependent upon ambient and surface conditions.
- Minimum ambient and surface temperatures are 60°F/16°C at the time of application.
- Do not use water or steam in the vicinity of the application.
Moisture can seriously affect the working time and properties of the material.

PRECAUTIONS

- The use of NIOSH/MSHA approved respirators, safety goggles and impervious gloves is required.
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES

- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Safety Data Sheets for Stonseal GS6 are available on line at www.stonhard.com under Tech Info or upon request.
- A staff of technical service engineers is available to assist with product application, or to answer questions related to Stonhard products.
- Requests for technical literature or service can be made through local sales offices, or corporate offices located worldwide.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high gloss coatings are subject to a reduction in gloss, while matte finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

CHEMICAL RESISTANCE GUIDE

The purpose of this guide is to aid in determining the potential value of Stonseal GS6 when exposed to the damaging effects of corrosive chemical environments.

RATING CODE

- E - Excellent
- G - Good
- NR - Not Recommended
- OS - Suitable for use where "occasional spillages" occur; when flushing with water immediately follows.

ACIDS

RATING	RATING
Acetic - 5% G	Hypochlorous - 5% E
Acetic - 20% OS	Lactic - up to 20% OS
Acetic - Glacial NR	Maleic - 30% OS
Benzoic - Sat. 3% E	Maleic - 40% OS
Boric - Sat. 30% E	Nitric - 10% G
Butyric - 10% OS	Nitric - 30% OS
Chromic - 10% G	Oleic G
Chromic - 20% OS	Oxalic - Sat. E
Citric - 50% E	Perchloric - 35% OS
Cresylic OS	Phosphoric - up to 50% OS
Diglycolic G	Picric - Sat. E
Fatty G	Phthalic G
Fluoboric G	Succinic - Sat. E
Formic - up to 10% OS	Sulfuric - 20% E
Heptanoic OS	Sulfuric - 50% OS
Hydrochloric - 15% G	Sulfuric - 70% OS
Hydrochloric - 37% OS	Tannic - Sat. G
Hydrofluoric 5% G	Tartartic - Sat. E
Hydrofluoric - 10% OS	

ALKALIES AND SALTS

Stonseal GS6 is rated *Good* to *Excellent* when exposed to most alkalies and salts.

SOLVENTS AND OTHER CHEMICALS

RATING	RATING
Acetone NR	Linseed Oil G
Alcohol (Methyl) OS	Methyl Ethyl Ketone NR
Alcohol (Ethyl, Propyl, Isopropyl, Butyl) G	Methylene Chloride NR
Benzene OS	Milk E
Carbon Tetrachloride OS	Mineral Spirits G
Corn Oil E	Naphtha OS
Cyclohexane OS	Oils - Cutting G
Denatured Alcohol NR	Oils - Mineral E
Ethylene Glycol G	Oils - Vegetable G
Ether OS	Perchloroethylene OS
Formaldehyde OS	Skydrol G
Gasoline E	Sucrose - Sat. (Sugar) E
Glycerine E	Toluene OS
Hydrogen Peroxide - 10% NR	Trichloroethylene NR
JP5 Jet Fuel G	Urea G
Juices - Fruit E	Vinegar (Household) G
Juices - Vegetable E	Water E
Lard G	Xylene OS

Note: This data is based on laboratory tests performed under carefully controlled conditions. (All solutions are at ambient temperatures.) No warranty can be expressed nor implied regarding the accuracy of this information as it will apply to actual plant operation or job site use. Plant operations and job site uses vary widely, and the individual results obtained are affected by the specific conditions encountered, which are beyond our control.

IMPORTANT:

Stonhard believes the information contained here to be true and accurate as of the date of publication. Stonhard makes no warranty, expressed or implied, based on this literature and assumes no responsibility for consequential or incidental damages in the use of the systems described, including any warranty of merchantability or fitness. Information contained here is for evaluation only. We further reserve the right to modify and change products or literature at any time and without prior notice.

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