

## PRODUCT DESCRIPTION

Stonseal GS7 is a two-component, high performance, waterborne, polyurethane coating. Stonseal GS7 combines superior chemical and abrasion resistance with excellent adhesion and resistance to ultraviolet light.

## USES, APPLICATIONS

Stonseal GS7 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. Typical uses for GS7 include:

- UV resistant topcoat
- Increased abrasion resistance
- Increased stain resistance

## PRODUCT ADVANTAGES

- Maximum ultraviolet light resistance
- Easily cleaned surface for simple maintenance
- Excellent abrasion resistance
- Minimal odor during application
- May be applied with a brush or a roller

## PACKAGING

Stonseal GS7 is packaged in units for easy handling. Each unit consists of 1 One carton containing:

- 1 foil bag of Part A (curing agent)
- 1 gallon pail of Part B (resin)

## COVERAGE

Approximately 37.16 m<sup>2</sup> per unit per coat @ 51 µm (DFT) over a smooth substrate. GS7 Clear Flat requires two coats for a proper finish.

## STORAGE CONDITIONS

Store both components of Stonseal GS7 between 16 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 GS7 is currently available in a clear gloss, a clear flat and 15 dynamic colors. Custom colors are available upon request.

## SURFACE PREPARATION

Before coating a Stonhard floor, the surface must be clean and dry. If applying Stonseal GS7 over an epoxy coating, it is important to allow the epoxy to cure for at least 12 hours at 21°C. The surface must be clean and free of dust and bond inhibiting particles. The Stonhard floor is then ready to be coated.

## PHYSICAL CHARACTERISTICS

### VOC Content

(ASTM D-2369)

Pigmented	243 g/l
Clear gloss	248 g/l
Clear flat	183 g/l
<b>Pot Life</b>	1 hour

(@ 21°C)

### Cure Rate

(@ 25°C)	6 hours
	for tack-free surface
	24 hours minimum
	for normal operations

### Fire Resistance of Dry Film

Self-extinguishing

### Abrasion Resistance

0.03 gm weight loss

(ASTM D-4060, CS-17 wheel)

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

## MIXING

Stonseal GS7 is supplied in pre-measured quantities. 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. Pre-mix the Part B in its container to ensure the suspension of solids. While the mixing blade is turning, slowly add the Part A and continue to mix to a uniform consistency for one minute. Avoid high-speed mixing that will entrain air bubbles. Thorough mixing of the two components is necessary.

## POT LIFE

After mixing, Stonseal GS7 has a working time of one hour at 21°C.

## APPLYING

Stonseal GS7 must be applied at ambient temperatures of 16 to 30°C and humidity below 80%. Application should begin immediately after mixing the two components. Use a medium nap roller and apply at a wet film thickness of 76 to 102 µm. Any questions regarding the application of Stonseal GS7 should be directed to Stonhard's Technical Service Department.

**Note:** Finish rolling after initial application of Stonseal GS7 is not recommended. Applicators should roll Stonseal GS7 carefully and leave a finished surface prior to moving to next area.

## **CURING**

The curing time of Stonseal GS7 is 6 hours at 21°C. Before resuming normal operations, A curing period of 48 hours is recommended. The coating will achieve ultimate physical characteristics 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 temperature is 16°C at the time of application.
- Stonseal GS7 should be allowed to cure for a minimum of 48 hours before being covered with non-porous material such as plastic sheeting.

## **PRECAUTIONS**

- Water is recommended for clean up of Stonseal GS7 material spills. The cured material will require mechanical means of removal.
- NIOSH/MSHA approved respirators, safety glasses and impervious gloves are recommended.
- In case of contact with eyes, flush with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Mechanical ventilation is recommended.

## **NOTES**

- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available in the Stonblend Chemical Resistance Guide.
- Material Safety Data Sheets for Stonseal GS7 are available on line at [www.stonhard.com](http://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 representatives and offices, or corporate offices located worldwide.

## CHEMICAL RESISTANCE GUIDE

The purpose of this guide is to aid in determining the potential value of Stonseal GS7 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%.....	E	Hypochlorous - 5%.....	E
Acetic - 20%.....	G	Lactic - up to 20%.....	G
Acetic - Glacial.....	OS	Maleic - 30%.....	G
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%.....	G
Cresylic.....	G	Phosphoric - up to 50%.....	OS
Diglycolic.....	G	Picric - Sat.....	E
Fatty.....	E	Phthalic.....	G
Formic - up to 10%.....	G	Succinic - Sat.....	E
Fluoboric.....	G	Sulfuric - 20%.....	E
Heptanoic.....	G	Sulfuric - 50%.....	E
Hydrochloric - 15%.....	E	Sulfuric - 75%.....	OS
Hydrochloric - 37%.....	G	Tannic – Sat.....	G
Hydrofluoric - 5%.....	G	Tartaric – Sat.....	E
Hydrofluoric - 10%.....	OS		

### ALKALIES AND SALTS

Stonflex MP7 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.....	G	Oils - Cutting.....	G
Diacetone Alcohol.....	OS	Oils - Mineral.....	E
Ethylene Glycol.....	G	Oils - Vegetables.....	G
Ether.....	OS	Perchloroethylene.....	OS
Formaldehyde.....	G	Skydrol.....	OS
Gasoline.....	E	Sucrose (Sugar) – Sat.....	E
Glycerine.....	E	Toluene.....	OS
Hydrogen Peroxide to 10%.....	G	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, 22°C) No warranty can be expressed or implied regarding the accuracy of this information as it applies to actual plant operations 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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