

STONSEAL® GS7

PRODUCT DESCRIPTION

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

USES

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.
- Minimum odour during application.
- May be applied with a brush or a roller.

PACKAGING AND COVERAGE

5lt Kit Stonseal GS7 Part A + B
60-70m²/5lt kit/coat; 2 coats required

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.

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.

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 spiral impeller. 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 2 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 1 hour at 21°C.

APPLICATION

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 75 to 100 microns. Any questions regarding the application of Stonseal GS7 should be directed to StonCor Africa's Technical Service Department. **Note:** Finish rolling after initial application of StonsealGS7 is not recommended. Applicators should roll Stonseal GS7 carefully and leave a finished surface prior to moving to the 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.

TYPICAL PROPERTIES AT 25°C

Colour	Clear matt finish
Volume Solids	28%
VOC Content	Clear flat: 60 g/l
Pot Life at 21°C	1 Hour
Cure Rate at 25°C	6 Hours for tack-free surface 24 Hours for normal operation
Fire Resistance of Dry Film	Self-extinguishing
Abrasion Resistance ASTM D-4060, CS-17 Wheel)	0.03gm weight loss

NOTE: The above physical properties were measure in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens. All sample preparation and testing is conducted in a laboratory, values obtained on the field applied materials may vary.

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 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.

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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%	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 GS7 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
JPS 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.

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