

PRODUCT DESCRIPTION

Stonseal ST6 is a two component, UV resistant, clear, aliphatic, polyurethane/polyurea sealer. It is formulated to increase abrasion, chemical and stain resistance while improving cleanability. Stonseal ST6 is easily applied and hardens to an attractive high gloss finish with a fine stipple appearance.

USES, APPLICATIONS

Stonseal ST6 is a sealer designed for use whenever a high gloss, UV resistant, stipple finish is required. Stonseal ST6 can be used in conjunction with various Stonhard flooring systems to improve performance in many different applications:

- Lobbies
- Automotive Service Bays
- Warehouses
- Walkways

PRODUCT ADVANTAGES

- 100 % UV resistant
- Stippled finish
- Excellent abrasion and stain resistance
- Excellent bond strength
- Durable, gloss finish permits easy cleaning and maintenance

PACKAGING

Stonseal ST6 is packaged in units for easy handling. Each unit consists of one carton containing:

- 1 gallon can of Isocyanate
- 1 pint can of Additive

COVERAGE

Approximately 46 m² per unit at 76 µm WFT.

STORAGE CONDITIONS

Store all components of Stonseal ST6 between 16°C and 29°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is two years in the original, unopened container.

SUBSTRATES/SURFACE PREPARATION

Stonseal ST6 should only be utilized as a finished coat over a Stonhard floor system to improve system performance. It is not designed to be a stand alone clear sealer over other porous surfaces. A newly installed Stonhard floor requires limited preparation. Any imperfections in the finish should be addressed by lightly sanding or touching up prior to the Stonseal ST6 being applied. An existing Stonhard floor will require preparation to ensure adequate bonding. Since the Stonseal ST6 is a clear sealer, most applications will require an initial pigmented coat of sealer to ensure uniformity of the appearance

PHYSICAL CHARACTERISTICS

Percent Solids	92 %
Pot Life @ 21°C	60 minutes
VOC (ASTM D-2369)	95 g/l
Suggested Number of Coats	One
Cure Rate @ 25°C	6 hours for a tack-free surface 24 hours for normal operations
Heat Resistance	93°C continuous exposure 121°C intermittent exposure
Abrasion Resistance (ASTM D-4060, CS-17)	0.02 gm max weight loss

Note: The above physical properties were measured in accordance with the referenced standards. Samples of the actual floor system, including binder and filler, were used as test specimens.

CHEMICAL RESISTANCE

Stonseal ST6 offers improved stain resistance to all automotive fluids and chemicals. Refer to the Stonseal ST6 Chemical Resistance Guide for the most up to date information.

MIXING

Empty the contents of the one gallon can and the pint can into a five gallon bucket. Using a drill and mixing blade, mix the two components at low speed for 120 seconds.

POT LIFE

After mixing, Stonseal ST6 has a working time of approximately 60 minutes at 21°C. The working time may vary depending upon ambient and surface conditions. At high humidity levels working time will be substantially decreased.

APPLYING

Stonseal ST6 can be applied at ambient temperatures of 16 to 29°C. The material must be applied immediately after mixing. Stonseal ST6 is applied with a steel squeegee and a medium nap roller. To ensure proper thickness, medium pressure should be applied to the steel squeegee. A brush may be used where necessary.

Immediately after the Stonseal ST6 is applied, it should be finish rolled in long, even passes which are perpendicular to the directions that the material was originally rolled. This will help to ensure uniform thickness and eliminate thick or thin spots. Stonseal ST6 is applied at thickness of 76 µm wet film thickness.

Each additional coat may be applied when the surface is tack-free (about 6 hours.) Any questions regarding the application of Stonseal ST6 should be directed to Stonhard's Technical Service Department.

Note: Care should be taken when cutting in along edges, corners, etc. to ensure that the coating is applied evenly and uniformly. If the Stonseal ST6 is allowed to puddle, it will foam.

CURING

The surface of Stonseal ST6 will be tack-free in 6 hours at 25°C. The coated area may be put back into service in 24 hours. Ultimate physical characteristics will be achieved in 7 days.

RECOMMENDATIONS

- Apply only on a clean, sound and properly prepared substrate.
- Minimum ambient and surface temperatures are 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.
- Application and curing times are dependent upon ambient and surface conditions.

PRECAUTIONS

- Toluene and Xylene solvents are recommended for clean up of the unreacted Stonseal ST6 material. Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations. The reacted material will require mechanical means of removal.
- The use of NIOSH/MSHA approved respirators, safety glasses and imperious gloves is recommended.
- 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

- For environments not referenced in the Chemical Resistance Guide, consult Stonhard's Technical Service Department for recommendations.
- Material Safety Data Sheets for Stonseal ST6 are available on line at www.stonhard.com under Products 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 or corporate offices located worldwide.

CHEMICAL RESISTANCE GUIDE

The purpose of this guide is to aid in determining the potential value of Stonseal ST6 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 ST6 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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