

STONSEAL®ST6.

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

Note: Additive has a gel-like consistency and may need to be scooped out of the pint can.

COVERAGE

Approximately 74 m² per unit at 2-3 mils WFT.

STORAGE CONDITIONS

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

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.

PHYSICAL CHARACTERISTICS

Percent Solids	92 %
Pot Life @ 21°C	60 minutes
VOC (ASTM D-2369)	85 g/l
Suggested Number of Coats	One
Cure Rate @ 25°C	8 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 coating were used as test specimens.

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.

MIXING

Empty the contents of the one gallon can and the pint can into a five gallon bucket. The pint can's contents may need to be removed using a paint stick, due to its gel-like nature. 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 a thickness of 2-3 mils wet film thickness. Each additional coat may be applied when the surface is tack-free (about 8 hours). Any questions regarding the application of Stonseal ST6 should be directed to Stonhard's Technical Service Department.

Note: It is critical that the ST6 is not applied at greater than 4 mils WFT. The use of a mil gauge when applying the ST6 is very important to ensure that there are no areas that exceed 4 mils WFT as these areas will foam.

Care should be taken to ensure the rollers do not get over saturated. If this occurs then it is possible to have the thickness at the edge of the rollers exceed 4 mils WFT and this will cause foam streaks in the finished surface. The rollers must be dried out periodically to ensure this does not occur.

Typical areas of concern for puddling of the sealer, along coves and in corners, must be monitored closely to ensure the ST6 does not puddle in these areas.

If you are applying the ST6 over a textured surface, it is critical to ensure the ST6 is not being applied at greater than 4 mils WFT. The tendency is for a thicker application over a textured surface, but should this occur there will be issues with the ST6 foaming.

It is recommended to utilize a rubber squeegee over textured surfaces to obtain the proper thickness and coverage.

CURING

The surface of Stonseal ST6 will be tack-free in 8 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.
- If applying over a sealed textured coating: SK6 is recommended for use over full broadcast Texture 3, Texture 4, or Stonshield applications. Stonseal ST6 is recommended for use over Texture 2 and sparse broadcast Texture 3.

PRECAUTIONS

- Toluene and Xylene solvents are recommended for cleanup 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.
- A NIOSH-approved air purifying respirator (APR) equipped with organic vapor/acid gas cartridges is required during application of the Stonseal ST6.
- 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.
- Safety Data Sheets for Stonseal ST6 are available online at www.stoncor-europe.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.
- 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 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

IMPORTANT:

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Rev.1/18
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STONHARD
 www.stoncor-europe.com



European Offices:

Belgium +32 674 93 710
 France +33 160 064 419
 Poland +48 422 112 768

Spain/Portugal +351 707 200 088
 United Kindom +44 125 63 36 600
 East Europe +48 422 112 768

Germany +49 240 541 740
 The Netherlands +31 165 585 200
 Italy +39 022 53 751