STONHARD

STONSEAL SK6

PRODUCT DATA

PRODUCT DESCRIPTION
Stonseal SK6 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 SK6 is easily applied and hardens to an attractive, smooth, glass-like, high-gloss finish.

USES, APPLICATIONS
Stonseal SK6 is a high-gloss sealer designed for use whenever a high-gloss, UV-resistant, smooth finish is required. Stonseal SK6 can be used in conjunction with various Stonhard flooring systems to improve performance for many different applications:

- Lobbies
- Automotive Service Bays
- Warehouses
- Walkways

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

OPTIONS
Satin Finish (SF)-A durable polymer microsphere can be added, which downglosses the coating and provides a satin finish.

Gloss Texture (GT)-A fine texture can be included to offer improved slip resistance, wear resistance, and UV resistance.

PACKAGING
Stonseal SK6 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

COVERAGE
Approximately 600 sq. ft./56 sq. m per unit at 2 to 4 mils WFT.

STORAGE CONDITIONS
Store all components of Stonseal SK6 between 60˚F/16˚C and 85˚F/29˚C in a dry area. Avoid excessive heat and do not freeze. The shelf life is two years in the original, unopened container.

PHYSICAL CHARACTERISTICS

Percent Solids	92 %
Pot Life @ 70˚F/21˚C	60 minutes
VOC (ASTM D-2369)	86 g/l
Suggested Number of Coats	One
Cure Rate @ 77˚F/25˚C	6 hours for a tack-free surface 24 hours for normal operations
Heat Resistance	200˚F/93˚C continuous exposure 250˚F/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.

CHEMICAL RESISTANCE
Stonseal SK6 offers improved stain resistance to all automotive fluids and chemicals. Refer to the Stonseal SK6 Chemical Resistance Guide for the most up to date information.

SUBSTRATES/SURFACE PREPARATION
Stonseal SK6 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 concrete or other porous surfaces. A newly installed Stonhard floor requires additional preparation steps to ensure the final appearance of the system is acceptable. If the surface to be coated is textured, there are no additional steps required. If the surface to be coated is smooth and the customer's expectation is for a smooth, glass-like finish, then the following steps need to be done:

- Sand the area with a 100 grit screen. Care must be taken not to mar the surface during this step.
- Vacuum the area thoroughly.
- Solvent wipe the surface and/or use tack cloth to ensure maximum particulate removal.
- Ensure that equipment, walls and other surfaces are also cleaned.

The area is now ready for the Stonseal SK6 application.

An existing Stonhard floor will require preparation to ensure adequate bonding. Since the Stonseal SK6 is a clear sealer, most applications will require an initial pigmented coat of sealer to ensure uniformity of the appearance.

The steps above will need to be followed to ensure the final appearance is acceptable.

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.

For SK6-SF and SK6-GT, add one bag of the approprpriate Part C to the bucket during the 120 second mix cycle.

POT LIFE

After mixing, Stonseal SK6 has a working time of approximately 60 minutes at 70˚F/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 SK6, SK6-SF and SK6-GT can be applied at ambient temperatures of 60 to 85˚F/16 to 29˚C. The material must be applied immediately after mixing.

Stonseal SK6 and SK6-SF are applied with a steel squeegee and a medium nap roller. To ensure proper thickness, medium pressure should be applied to the steel squeegee. When applying Stonseal SK6 with no Part C, we recommend using a Mohair roller or a 1/4 inch nap roller to ensure proper thickness. A brush may be used where necessary. Immediately after the Stonseal SK6 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 spots. Stonseal SK6 and SK6-SF are applied at thicknesses ranging from 2 to 4 mils 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 SK6 or SK6-SF should be directed to Stonhard's Technical Service Department.

Stonseal SK6-GT is applied by the dip and roll method usingmedium nap roller. A bucket screen or paint tray should be used to keep the nap roller saturated and prevent drips. Using a saturated nap roller, apply a uniform layer of SK6-GT to the floor surface. A brush may be usedwhere necessary. Immediately after the Stonseal SK6-GT is applied, itshould 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 spots. Stonseal SK6-GT is applied at thicknesses ranging from 2 to 4 mils 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 SK6-GT should be directed to Stonhard'sTechnical Service Department.

Note: If the SK6-GT material is allowed to sit for more than 5 minutes in the bucket, it may start to settle. This material should be remixed for 30 seconds to ensure suspension of the texture. This will help to maintain a uniform appearance during the installations.
Note: It is critical that all versions of Stonseal SK6 are not applied at greater than 5 mils WFT. The use of a mil gauge when applying the SK6 is very important to ensure that there are no areas that exceed 5 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 5 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 that any version of Stonseal SK6 does not puddle in these areas.

If you are applying any version of Stonseal SK6 over a textured surface, it is critical to ensure the Stonseal SK6 is not being applied at greater than 5 mils WFT. The tendency is for a thicker application over a textured surface, but should this occur there will be issues with the SK6 foaming.

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

CURING

The surface of Stonseal SK6 will be tack-free in 6 hours at 77˚F/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 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.
- 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

- Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- Toluene and Xylene solvents are recommended for clean up of the unreacted Stonseal SK6 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 selection of proper protective clothing and equipment will significantly reduce the risk of injury. Body covering apparel, safety goggles or safety glasses and impermeable gloves are required.

CHEMICAL RESISTANCE GUIDE

The purpose of this guide is to aid in determining the potential value of Stonseal SK6 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
Acetic - 5%	G
Acetic - 20%	OS
Acetic - Glacial	NR
Benzoic - Sat. 3%	E
Boric - Sat. 30%	E
Butyric - 10%	OS
Chromic - 10%	G
Chromic - 20%	OS
Citric - 50%	E
Cresylic	OS
Diglycolic	G
Fatty	G
Fluoboric	G
Formic - up to 10%	OS
Heptanoic	OS
Hydrochloric - 15%	G
Hydrochloric - 37%	OS
Hydrofluoric 5%	G
Hydrofluoric - 10%	OS

	RATING
Hypochlorous - 5%	E
Lactic - up to 20%	OS
Maleic - 30%	OS
Maleic - 40%	OS
Nitric - 10%	G
Nitric - 30%	OS
Oleic	G
Oxalic - Sat.	E
Perchloric - 35%	OS
Phosphoric - up to 50%	OS
Picric - Sat.	E
Phthalic	G
Succinic - Sat.	E
Sulfuric - 20%	E
Sulfuric - 50%	OS
Sulfuric - 70%	OS
Tannic - Sat.	G
Tartartic - Sat.	E

ALKALIES AND SALTS

Stonseal SK6 is rated *Good* to *Excellent* when exposed to most alkalies and salts.

SOLVENTS AND OTHER CHEMICALS

	RATING
Acetone	NR
Alcohol (Methyl)	OS
Alcohol (Ethyl, Propyl, Isopropyl, Butyl)	G
Benzene	OS
Carbon Tetrachloride	OS
Corn Oil	E
Cyclohexane	OS
Denatured Alcohol	NR
Ethylene Glycol	G
Ether	OS
Formaldehyde	OS
Gasoline	E
Glycerine	E
Hydrogen Peroxide - 10%	NR
JP5 Jet Fuel	G
Juices - Fruit	E
Juices - Vegetable	E
Lard	G

	RATING
Linseed Oil	G
Methyl Ethyl Ketone	NR
Methylene Chloride	NR
Milk	E
Mineral Spirits	G
Naphtha	OS
Oils - Cutting	G
Oils - Mineral	E
Oils - Vegetable	G
Perchloroethylene	OS
Skydrol	G
Sucrose - Sat. (Sugar)	E
Toluene	OS
Trichloroethylene	NR
Urea	G
Vinegar (Household)	G
Water	E
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.

- A NIOSH-approved air purifying respirator (APR) equipped with organic vapor/acid gas cartridges is required during application of the Stonseal SK6.
- 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 SK6 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.
- 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.

STONHARD®
www.stonhard.com

a brand of THE STONHARD GROUP

Worldwide Offices:

USA	800.257.7953	Mexico	(52)55.9140.4500	Europe	(32) 67.49.37.10	Africa	(27)11.254.5500
Canada	(905)430.3333	South America	(54-11) 5032 3113	Middle East	(971)4.3470460	Asia	(86)21.5466.5118