

PRODUCT DESCRIPTION

Stonseal UT7 is a two-component, solvent free, abrasion resistant, pigmented urethane sealer. It is formulated to increase abrasion and chemical resistance while improving cleanability. Stonseal UT7 is easily applied and hardens to an attractive gloss finish.

USES, APPLICATIONS

Stonseal UT7 is a high gloss sealer designed for use whenever a high gloss, abrasion resistant, smooth finish is required. It may be applied on various substrates to both vertical and horizontal surfaces. Some applications of Stonseal UT7 are:

- In conjunction with various stonhard flooring systems
- For substrates requiring a protective sealer that is easily cleaned and maintained

PRODUCT ADVANTAGES

- Long-term abrasion and chemical resistance
- Excellent bond strength assures good adhesion
- Protects against moisture penetration
- Durable, gloss finish permits easy cleaning and maintenance
- Factory proportioned packaging ensures consistent, high quality, simplified mixing

PACKAGING

Stonseal UT7 is packaged in units for easy handling. Each unit consists of:

- 1 carton containing:
- 4 foil bags of Isocyanate
 - 4 poly bags of Polyol

For custom colors:

- 1 carton containing:
- 1 gallon can of Polyol
 - 2 foil bags of Isocyanate

COVERAGE

Approximately 18.5 m² per unit over a textured substrate like Stonclad UT. Approximately 37 m² for one coat and 18.5 m² for 2 coats over an unsealed mortar like Stonclad UR.

note: It is recommended to use 2 coats over stonclad UR due to outgassing of the mortar.

STORAGE CONDITIONS

Store all components of Stonseal UT7 between 16°C and 29°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 2 years in the original, unopened container.

CHEMICAL RESISTANCE

Refer to the Stonclad Chemical Resistance Guide for the most up to date information.

PHYSICAL CHARACTERISTICS

Pot life (@ 21 °C)	20 minutes
Cure Rate (@ 25 °C)	6 hours for tack-free surface 24 hours minimum for normal operations
Heat Resistance limitations	93 °C continuous exposure 121 °C intermittent exposure
Abrasion Resistance (ASTM D-4060, CS-17)	0.05 gm max. weight loss
VOC Content (ASTM 2369, Method E)	30 g/l

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. All sample preparation and testing is conducted in a laboratory environment, values obtained on field applied materials may vary and certain test methods can only be conducted on lab made test coupons..

SURFACE PREPARATION

Before coating a smooth floor like Stonclad UR, all trowel marks and surface imperfections must be removed to produce a smooth surface. Grind the floor using a floor grinder with medium stones and vacuum using an industrial wet/dry vacuum to remove all dust particles. Before coating a textured floor like Stonclad UT, the floor must be swept and vacuumed to remove all extra/loose aggregate. The stonhard floor is now ready to be coated with Stonseal UT7.

MIXING

Stonseal UT7 is supplied in factory proportioned quantities. To achieve thorough and proper mixing, the Stonseal UT7 must be mechanically mixed using a heavy-duty, slow-speed drill (400 to 600 rpm) with a mixing blade. Empty the contents of the polyol and isocyanate into a clean mixing container. Using a mixing blade, mix the material for 2 minutes. Avoid high speed mixing that will entrain air into the mix. Thorough mixing of the two components is required.

POTLIFE

After mixing, Stonseal UT7 has a working time of approximately 20 minutes at 21 °C. The working time may vary depending upon ambient and surface conditions.

APPLYING

Stonseal UT7 can be applied at ambient temperatures of 16 to 29°C. The Sealer must be applied immediately after mixing the two components. Over a smooth surface, stonseal UT7 is applied with a squeegee and then backrolled with a medium nap roller to remove squeegee lines. A brush may be used when necessary. For applications over a stonclad Ut system, Stonseal UT7 must be dip and rolled using a medium nap roller to ensure proper coverage is obtained and the sealer is not applied too heavy. Additional coats may be applied when the surface is tack-free (about 6 hours). any questions regarding the application of stonseal UT7 should be directed to stonhard's technical service Department.

CURING

The surface of Stonseal UT7 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

- 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.
- 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 UT7 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's 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 Ut7 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%	E	lactic - up to 20%	E
acetic - Glacial	G	maleic - 30%	E
Benzoic - sat. 3%	E	maleic - 40%	G
Boric - sat. 30%	E	nitric - 10%	E
Butyric - 10%	E	nitric - 30	G
Chromic - 10%	G	Oleic	E
Chromic - 20%	G	Oxalic - sat.	E
Citric - 50%	E	Perchloric - 35%.	OS
Cresylic	G	Phosphoric - up to 50%	E
Diglycolic	G	Picric - sat.	E
Fatty	E	Phthalic	G
Fluoboric.	OS	succinic - sat.	E
Formic - up to 10%	E	sulfuric - 20%.	E
Heptanoic	G	sulfuric - 50%	G
hydrochloric - 15%.	E	sulfuric - 70%.	NR
hydrochloric - 37%	E	tannic - sat.	E
hydrofluoric 5%	G	tartartic - sat	E
hydrofluoric - 10%	OS		

ALKALIES AND SALTS

stonseal Ut7 is rated *Good* to *Excellent* when exposed to most alkalies and salts.

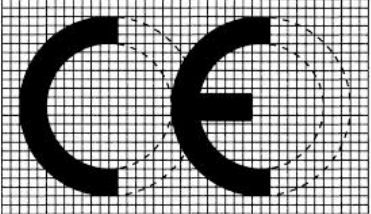
SOLVENTS AND OTHER CHEMICALS

	RATING		RATING
acetone	OS	linseed Oil	E
alcohol (methyl).	G	methyl ethyl Ketone	OS
alcohol (ethyl, Propyl, isopropyl, Butyl)	G	methylene Chloride	OS
Benzene	E	milk	E
Carbon tetrachloride	E	mineral spirits	E
Corn Oil	E	naphtha	E
Cyclohexane	E	Oils - Cutting	E
ethylene Glycol	E	Oils - mineral	E
ether	E	Oils - Vegetable	E
Formaldehyde	E	Perchloroethylene	E
Gasoline	E	skydrol	E
Glycerine	E	sucrose - sat. (sugar)	E
hydrogen Peroxide - 10%	E	toluene.	E
JP5 Jet Fuel	E	trichloroethylene.	OS
Juices - Fruit	E	Urea	E
Juices - Vegetable	E	Vinegar (household)	E
lard	G	Water	E
		Xylene	E

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.

CE MARKING

The harmonized European Standard EN 13813 „Screed material and floor screeds- Screed materials - Properties and requirements“ specifies the requirements for screed materials for use in floor construction internally. Resinous flooring systems as well as resinous screeds fall under this specification they have to be CE-labeled as **per Annex ZA., Table ZA.1.5 and 3.2** and fulfill the requirements of the given mandate of the Construction Products Regulation no. 305/2011

	
StonCor Europe Rue du Travail 9 1400 Nivelles, Belgium	
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EC-DOP-2013.13.006	
EN 13813 SR-AR0.5-B2.0	
Synthetic resin coating system for use internally in buildings ² (system as per Product Data Sheet)	
Reaction to fire:	B _{fl} -S ¹
Release of corrosive substances:	SR
Wear resistance:	≤ AR0.5
Adhesion strength by pull-off test:	> B2.0
Chemical resistance:	CRG ¹
⁽¹⁾ CRG: see Stonhard Chemical Resistance Guide	
⁽²⁾ Tested as part of a system build-up with Stonclad GS	

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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