

PRODUCT DESCRIPTION

Stonhard Urethane Primer is a three-component, urethane based priming system. It is used in conjunction with Stonhard's Stonset TG6, Stonclad UR and Stonflex HPE membrane systems to ensure a secure bond to the substrate. The vertical formula can also be used as a patching mortar to fill voids and bugholes.

SYSTEM OPTIONS

Urethane Primer is available in two different configurations: a horizontal formula for priming floor surfaces and a vertical formula for priming wall surfaces. Each use the same Urethane Primer liquids but incorporate a different Part C.

PACKAGING

Urethane Primer is packaged in units for easy handling. Each unit consists of:

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

Horizontal

2 bags of Part C (fine aggregate)

Vertical

2 bags of Part C (fine aggregate)
2 bags of Part C-I (fine aggregate)

COVERAGE

Horizontal

One unit of Urethane Primer will yield approximately 23.2 m² over a relatively smooth substrate. The rougher the substrate, the less total area one unit will cover.

Vertical

One unit of Urethane Primer will cover approximately 9,340 cm³ for patching bugholes and voids.

STORAGE CONDITIONS

Store all components of Urethane Primer between 16 to 30°C in a dry area. Avoid excessive heat. Do not freeze. The shelf life of Part A and B liquids is one year while the Part C has a 6 month shelf life.

SUBSTRATE PREPARATION

Urethane Primer can be applied over concrete, Stonfil OP2 or stonset TG6. Proper preparation is critical to ensure an adequate bond. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance.

PHYSICAL CHARACTERISTICS

Pot life	15 to 20 minutes @ 21°C
Application Temperature Range	Ambient and substrate temperatures should be between 7°C and 32°C
Solids Content	100%
Tensile Strength (ASTM D-638)	13.8 N/mm ²
Tensile Modules	6.9 x 10 ² N/mm ²
Percent Elongation (ASTM D-638)	3%
Substrate Moisture Tolerance	< 80% RH
VOC Content (ASTM D-2369)	< 5 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.

Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen DG2) and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

MIXING

Empty the contents of Part A and Part B into a clean pail and mix with a slow-speed drill and a Jiffler mixing blade for one minute. Then, add Part C and mix for an additional 90 seconds. Part C must be added in full for the mix to cure properly. The liquids will not cure without the Part C.

POT LIFE

After mixing, Urethane Primer has a working time of approximately 15-20 minutes at 21°C and 20 minutes at 7°C. The working time may vary depending upon ambient and surface conditions

APPLICATION

Horizontal

Pour a bead of Urethane Primer onto the floor and squeegee out. Be careful not to leave squeegee lines. Use a nap roller to finish roll the material and remove squeegee lines.

Vertical

When filling bugholes and voids, apply the Urethane Primer with a steel finishing trowel or taping knife. Deep areas will need to be placed in lifts. Finish with a rubber squeegee to remove trowel lines.

CURING

Urethane Primer must remain wet for the application of Stonset TG6 and Stonclad UR cove base. For the application of Stonflex HPE it must be tack-free. The cure time for Urethane Primer is approximately 2 to 3 hours at 25°C and 5 to 6 hours at 7°C.

RECOMMENDATIONS

- Stonkleen DG10 is recommended as an industrial detergent for removal of most contaminants found on concrete.
- Apply only on clean, sound, dry and properly prepared substrate.
- Clean tools immediately with scouring pads and water or mineral spirits. Hardened material will require mechanical removal.
- Minimum ambient and surface temperatures are 7°C at the time of application.
- Maximum surface temperatures must not exceed 32°C during time of application.
- Substrate temperature should be greater than 3°C above dew point.
- Application and curing times are dependent upon ambient and surface conditions. Consult Stonhard's Technical Service Department if conditions are not within the recommended guidelines.

PRECAUTIONS

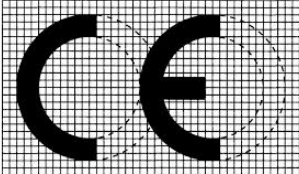
- In case of contact, flush the area with copious amounts of water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Urethane Primer contains Portland Cement and silica fines. NIOSH approved dust/mist respirators, safety glasses and impervious gloves are required during mixing.
- Use only with adequate ventilation.

NOTES

- Material Safety Data Sheets for Urethane Primer are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for literature can be made through local sales representatives and offices, or corporate offices located worldwide.

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 3.3** and fulfill the requirements of the given mandate of the Construction Products Regulation no. 305/2011

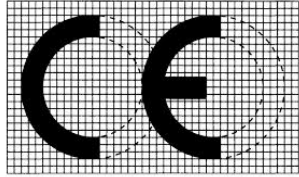
	
StonCor Europe Rue du Travail 9 1400 Nivelles, Belgium	
13	
EC-DOP-2013.09.009A/B	
EN 13813 SR-B2.0	
Synthetic resin primer system for use internally in buildings* (system as per Product Data Sheet)	
Release of corrosive substances:	SR
Adhesion strength by pull-off test:	> B2.0
Chemical resistance:	CRG**
* Tested as part of a system build-up with Stonclad UR	
** CRG: see Stonhard Chemical Resistance Guide	

CE MARKING

The harmonized European Standard EN 1504-2 „Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 2 : Surface protection systems for concrete” gives specifications for products and systems based on methods “hydrophobic impregnation”, “impregnation” and “coating” for the various principles presented under EN 1504-9.

Products which fall under this specification have to be CE-labelled as per Annex ZA. 1, Tables ZA 1a to ZA 1g according to the scope and relevant clauses there indicated, and fulfill the requirements of the given mandate of the Construction Products Directive (89/106):

For flooring systems not dedicated to protect or reinstate the integrity of a concrete structure, EN 13813 applies. Products acc. EN 1504-2 used as flooring systems with mechanical loads also must fulfil EN 13813. Here below indicated are the performance classes achieve according to the standard. For the specific performance results of the product to the particular tests, please see the actual values above in the PDS.

	
StonCor Europe Rue du Travail 9 1400 Nivelles, Belgium	
13	
EC-DOP-2013.01-005 & EC-DOP-2013.09.009A/B	
EN 1504-2 Surface protection product Coating*	
Permeability to CO ₂ :	S _D < 38m
Permeability to water vapor:	Class II
Capillary absorption and permeability to water:	W ₂₄ < 0.1 kg/m ² x h ^{0.5}
Resistance to severe chemical attack:	See CRG**
* Tested in combination with Stonclad UR	
**CRG: see Stonhard Chemical Resistance Guide	

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.

STONHARD A Division of **STONCOR** Group

www.stoncor-europe.com

Belgium	+32 67493710	Spain/Portugal	+351 707200088	Germany	+49 240541740
France	+33 160064419	United Kingdom	+44 1256336600	The Netherlands	+31 165585200
Poland	+48 422112768	East Europe	+31 165585200	Italy	+39 02253751