

URETHANE PRIMER

PRODUCT DESCRIPTION

Stonhard Urethane Primer is a three-component, urethane based priming system. It is used in conjunction with Stonhard's Stonset TG6 and Stonclad UR 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 aggregate.

PACKAGING

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

Horizontal Version

- 1 carton containing:
 - 4 foil bags of Isocyanate
 - 4 poly bags of Polyol
- and
- 4 individual bags of fine aggregate

Vertical Version

- 1 carton containing:
 - 4 foil bags of Isocyanate
 - 4 poly bags of Polyol
- and
- 4 individual bags of Part C fine aggregate
- 4 bags of Part C-I fine aggregate

COVERAGE

Horizontal

One unit of Urethane Primer will yield approximately 18,6 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 7374 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 the liquids is 2 years while the aggregate has a 6 month shelf life.

SUBSTRATE

Urethane Primer is suitable for application over properly prepared concrete, wood or steel surfaces. It is not recommended for use over asphalt, mastic, gypsum-based products, brick or painted surfaces. These must first be removed by mechanical means to expose the substrate

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%
VOC (ASTM D-2369, Method E)	26 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.

prior to overlayment.

SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond and system performance. The substrate must be dry and properly prepared utilizing mechanical methods. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

MIXING

- Empty the contents of the isocyanate and polyol into a clean pail and mix with a slow-speed drill and a Jiffly mixing blade for one minute.
- Add the aggregate and mix for an additional 90 seconds.
- The aggregate must be added in full for the mix to cure properly. The liquids will not cure without the aggregate.
- For the vertical version, add both Part C and Part C-I components at the same time and mix for 90 seconds.

APPLYING

- Urethane Primer may be applied by rubber squeegee, brush or medium nap roller. It is important to obtain the proper coverage and not allow the material to puddle in holes or depressions.
- Application of the appropriate Stonhard overlayment must be completed BEFORE the primer sets. If the primer hardens before the overlayment is applied, it must be mechanically removed and the area must be reprimed.
- The "open time" for Urethane Primer is approximately 20 minutes at 25°C.

Note: Urethane Primer cannot be allowed to cure on its own.

CURING

Urethane Primer must remain wet for the application of Stonset TG6 and Stonclad UR. 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 TD9 is recommended as an industrial detergent for removal of most contaminants found on concrete.
- 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


- Use these materials only in strict accordance with the manufacturer's recommended safety procedures. Dispose of waste materials in accordance with government regulations.
- Urethane Primer contains Portland Cement and silica fines. NIOSH approved dust/mist respirators are required.
- 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 area with water for 15 minutes and seek medical attention. Wash skin with soap and water.
- If material is ingested, immediately contact a physician. **DO NOT INDUCE VOMITING.**
- Use only with adequate ventilation. Inhalation of vapors may cause severe headaches, nausea and possibly unconsciousness.
- Use only with adequate ventilation.

NOTES

- Safety Data Sheets for Urethane Primer are available on line at www.stoncor-europe.com under Products or upon request.
- A staff of technical service engineers is available to assist with application, or to answer questions related to Stonhard products.
- Requests for technical literature or service 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-labelled as per Annex ZA., Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Regulation no. 305/2011


 StonCor Europe Rue du Travail 9 1400 Nivelles, Belgium	
13	
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. I, Tables ZA I a to ZA I g 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 achieved 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	
DOP-2013.01-005 & DOP-2013.09.009A/B	
EN 1504-2 Surface protection product Coating*	
Permeability to CO ² :	SD < 38m
Permeability to water vapor:	Class II
Capillary absorption and permeability to water:	W ₂₄ < 0.1 kg/m ² × 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.

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