

STONPRIME® PU

PRODUCT DESCRIPTION:

Stonprime PU is a three-component, resin-based priming system for polyurethane systems. It is used to ensure a secure bond, fill substrate voids and highlights the possibility of "outgassing".

USES

Stonprime PU is designed for use with StonCor's Polyurethane systems.

PACKAGING

Stonprime PU is packaged as a 10 litre kit. Each kit consists of:

- 1 x 4,2kg 958 Stonclad Universal Resin
- 1 x 4,7kg 958 Stonclad Universal Activator
- 1 x 6kg 958 Stonprime PU Filler

MOISTURE BARRIER

In the absence of a proper vapour barrier, consult with a StonCor Africa technical representative for options.

COVERAGE

One 10L kit of Stonprime PU will have a theoretical coverage of between 25-30m² at 0,3mm total thickness (2 coats, wet-on-wet). The rougher the substrate, the lower the coverage per kit. Scarified surfaces will have a theoretical coverage of approximately 12-15m² at 0.6mm total thickness (2 coats, wet-on-wet).

STORAGE CONDITIONS

Store all components of Stonprime PU between 16 to 32°C in a dry area. Avoid excess heat and do not freeze.

SHELF LIFE

The shelf life is 1 year in the original, unopened container.

REFERENCE SAMPLE

A trial reference sample should be installed by the applicator prior to start of contract to ensure correct coverage and workmanship.

TYPICAL PROPERTIES AT 25°C

Pot Life	10 to 15 Minutes
Application Temperature Range	
Ambient & Substrate	10°C to 30°C
Material	16°C to 25°C
Application Method	Squeegee 2 coats wet-on-wet - DO NOT ROLL
Solids Content	100%
Tensile Strength (ASTM D-638)	>2 MPa, concrete failure
Overcoating Time	Refer to below schedule
Thinners	Nil
VOC Content	33g/l

NOTE: The above physical properties were measure 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, values obtained on the field applied materials may vary.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact StonCor Africa to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Africa quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data, if shown, are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY STONCOR AFRICA, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

PLACEMENT GUIDELINES

SCOPE OF WORK (BOQ):

Prepare surfaces and apply Stonprime PU to required thickness.

NOTE: Do not attempt to install this material unless application team is fully trained and understands the requirements of working with materials with short application times within the specified temperature range. Substrate temperatures are to be within 10 to 30°C. Material temperatures to be within 16 to 25°C

SUBSTRATE PREPARATION

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. Contaminants may be removed by scrubbing with a heavy-duty industrial detergent, Carboclean 250 or Carboclean 252, and rinsing with clean water. Laitance and unbonded cement particles must be removed and surfaces should be roughened by mechanical methods, i.e. abrasive blasting or scarifying. The surface must show open pores throughout and have a 80-grit sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

MIXING

Do not start mixing until the substrate is properly prepared, dry and dust-free, with the temperature of the substrate at least 10°C.

Empty the contents of Part A and Part B into a clean 25 litre pail and mix for 90 seconds with a variable speed high torque, 600 rpm mixer fitted with a spiral impeller. Then add Part C and mix for an additional 90 seconds.

POT LIFE

After mixing, Stonprime PU has a working time of approximately 10 to 15 minutes at 25°C. The working time may vary depending upon ambient and surface conditions

APPLICATION:

In the absence of a proper vapour barrier, consult with a StonCor Africa technical representative for options. Two coats of Stonprime PU is applied utilising the wet-on-wet method, using either a squeegee or a steel trowel. Pour a bead of Primer onto the substrate and work out, being careful not to leave lines. **DO NOT BACKROLL!**

Once you have applied approximately 10 minutes worth of Stonprime PU, walk back onto the Stonprime PU wearing spiked shoes and apply the second coat wet-on-wet. Again, use a squeegee or steel trowel. In large areas, you will need to have sufficient applicators to apply the first coat of Stonprime PU and the second coat of Stonprime PU at the same time.

NOTE: Remember not to backroll the Stonprime PU. Backrolling will pull the material out of voids and pinholes.

PRIMER INSPECTION:

Porous surfaces are known to "outgas" during the primer application and can be detected as blow holes or bubbles in the opaque primer. These need to be filled level with the surface using Pro-Struct 30/35NS Quickset Paste prior to overlaying with the coating system.

CURING AND OVERCOATING:

Overcoating times must be strictly adhered to.

If overcoating times are exceeded, grinding and/or re-priming of the area may be required. Consult with StonCor Africa. It is the Applicator's responsibility to ensure that the surface is free of contaminants prior to overcoating

Rigid Polyurethane, e.g. Stonclad UL:

SURFACE TEMP	MIN RECOAT	MAX RECOAT
10 to 16°C	24 Hours	48 Hours
> 16°C	16 Hours	48 Hours

Elastomeric coatings, e.g. Deck Protect, Pro-Struct 760, Reactamine ET, Stonchem 441:

SURFACE TEMP	MIN RECOAT	MAX RECOAT
10 to 16°C	8 Hours	48 Hours
17 to 30°C	4 Hours	24 Hours
31 to 40°C	4 Hours	16 Hours
41 to 50°C	4 Hours	8 Hours

RECOMMENDATIONS

- Carboclean 250 is recommended as an industrial detergent for removal of most contaminants found on concrete.
- Minimum ambient and surface temperature is 10°C at time of application.
- Apply only to clean, sound and properly prepared substrate.

October 2017 replaces August 2017

(Stonprime PU)

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact StonCor Africa to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Africa quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data, if shown, are subject to change without prior notice. **NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY STONCOR AFRICA, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

- Clean tools immediately with either scouring pads and water, or mineral spirits. Hardened material will require mechanical removal.
- 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:

- Both liquid components A and B are skin and eye irritants; avoid contact.
- The use of safety glasses and impervious gloves is required during application.
- In case of contact, flush the area with copious amounts of clean water for 15 minutes and seek medical attention. Wash skin with soap and water.
- Use only with adequate ventilation.

NOTES:

- Material Safety Data Sheets for Stonprime PU are available online at www.stoncor.co.za under Technical Information 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 and offices, or corporate offices located worldwide.

To the best of our knowledge the technical data contained herein are true and accurate at the date of issuance and are subject to change without prior notice. User must contact StonCor Africa to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to StonCor Africa quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. Prices and cost data, if shown, are subject to change without prior notice. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY STONCOR AFRICA, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.