

STONPRIME® 739

PRODUCT DESCRIPTION

Stonprime 739 is a three component epoxy resin-based priming system for self-levelling 1 to 3mm floor systems. It is used to ensure a secure bond, fill substrate voids and detects the possibility of "outgassing".

USES

Stonprime 739 is designed for use with Stonhard's free-flowing systems, i.e. Stonlux SL, Stonclad UL, Stonshield SLT, Stontec ERF, Pro-Struct 513 Levelling Mortar and Pro-Struct 518 Self-levelling Screed.

PRODUCT ADVANTAGES

- Enhances bond of polyurethane and epoxy system to concrete substrate
- Ensures full bond by filling substrate voids and detects substrate "outgassing"
- Low odour and can be overcoated after 6 hours at 25°C

PACKAGING & COVERAGE

20lt Kit consisting of:
 1 x 5 litre 739 Activator
 1 x 10 litre 739 Base
 1 x 15kg 739C Fine Aggregate
 60 to 70m²/20 litre kit (approximately 300 microns)

MOISTURE BARRIER

To ensure long term adhesion to concrete slabs and in the absence of a proper vapour barrier, the use of Stonprime 786 broadcast with coarse texture # 6223 aggregate would be required prior to the application of Stonprime 739.

SHELF LIFE

24 Months if stored between 16 to 32°C.

REFERENCE SAMPLE

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

STORAGE CONDITIONS

Store all components of Stonprime 739 between 16 to 32°C in a dry area. Avoid excessive heat and do not freeze.

TYPICAL PROPERTIES AT 25°C

Colour	Light Grey
Consistency	Aggregate-filled Paste
Volume Solids	100%
Number of Components	2
Mix Ratio by Volume (Base:Activator)	2:1
Pot Life	60 to 90 Minutes
Apply Over	Prepared concrete surfaces
Apply By	Notched Rake or Trowel
Initial Set	4 Hours at 25°C 16 Hours at 15°C
Service	16 Hours
Full Cure	4 Days
Application Temperature Range	16°C to 30°C
Maximum Service Temperature	60°C
Compressive Strength	> 50 MPa at 24 hours > 60 MPa at 4 days
Concrete Bond Strength	Breaks concrete
VOC	50 g/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.

PLACEMENT GUIDELINES

SCOPE OF WORK (BOQ):

Prepare surfaces and apply Stonprime 739 to prime and seal substrate floors prior to overcoating.

SUBSTRATE PREPARATION:

Remove oils, grease and other contaminants by scrubbing with Carboclean 252 and rinsing with clean running potable water to obtain a water break-free surface. Allow to dry. Abrade the surface by vacublasting or scarifying to expose the aggregate and open all voids. If grinders are used to remove thin coatings, reduce or smooth the surface profiles, it will not give a surface pattern suitable for coatings unless followed by etching or vacublasting. The roughened surface should have a texture similar to 80-grit sandpaper, minimum tensile strength of 2 MPa and moisture content of 5% maximum.

MIXING:

Do not start mixing until the substrate is properly prepared and dry with the temperature of both the substrate and the material at least 16°C. Empty the contents of Part A and B into a clean 25 litre pail and mix for 90 seconds with a mechanical mixer fitted with a spiral impeller. Then add Part C and mix for an additional 90 seconds. Do not aerate mix nor mix by hand. After mixing, Stonprime 739 has a working time of approximately 20 minutes at 25°C. The working time may vary depending on ambient and surface conditions.

APPLICATION:

Stonprime 739 must be used in conjunction with Stonprime 786 if moisture barriers are required. Two coats of Stonprime 739 are squeegee applied utilising the wet-on-wet method. Pour a bead of Primer onto the substrate and squeegee out, being careful not to leave squeegee lines. DO NOT BACKROLL.

Once you have applied approximately 10 minutes worth of Stonprime 739, walk back out onto the Primer wearing spiked shoes and apply the second coat of the wet-on-wet coats. Again, use a squeegee only. In large areas, you will need to have enough men to apply the first coat of Stonprime 739 and the second coat of Primer at the same time.

One 20 litre kit of Stonprime 739 will cover between 60 to 70m² on relatively smooth substrates following this 2-coat wet-on-wet application method.

NOTE: Remember not to backroll the Stonprime 739. Backrolling will put the material out of voids and pinholes. Stonprime 739 must be fully cured prior to overcoating.

PRIMER INSPECTION:

Very 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.

ADDITIONAL ADHESION:

Dependent on thickness of overlay, lightly broadcast a Stonhard texturing aggregate at ½kg/m² to create a gritted surface. In case of cementitious overlays, e.g. Pro-Struct 513, Pro-Struct 518 and Stonclad UL, it is essential to broadcast Stonhard 6222 medium aggregate to full rejection.

CURING:

If temperatures are between 16 to 30°C, the priming system can be overcoated after 8 to 10 hours. Excessive traffic, aqueous cleaning and exposure to aggressive chemicals should only take place after 5 days, when full cure has been achieved.

RECOMMENDATIONS:

- DO NOT attempt to install material if temperature of components and substrate are not within 16 to 30°C. The cure time and application properties of the material are severely affected.
- DO NOT use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- Protect areas from dust and isolate access. Contamination between layers will affect the final appearance.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with protective creams or rubber gloves and wear safety glasses.
- Use only with adequate ventilation.

NOTES:

- Procedures for maintenance of the flooring system during operations are described in “StonCor Cleaning Procedures”.
- Specific information regarding chemical resistance is available in the Chemical Resistance Guide.
- Material Safety Data Sheets are available on request.
- A staff of technical service engineers is available to assist in installation or to answer questions related to our flooring products specifically or flooring problems in general.
- Requests for technical service or literature can be made through local sales representatives and offices, or corporate offices located throughout the world.