

STONSEAL® 787

PRODUCT DESCRIPTION

Stonseal 787 is a two component, clear, solvent-free liquid epoxy resin cured with an aliphatic amine adduct designed to have excellent substrate wetting and adhesion on a variety of flooring finishes requiring encapsulation.

USES

Stonseal 787 is used in conjunction with various decorative Stonhard flooring systems where a high gloss durable finish is required. On coloured aggregates, PVA flakes and polished concrete floors, the sealer enhances the colour and provides good chemical and wear resistance properties. The sealer also provides a moderate degree of slip resistance whilst retaining its cleanability and resistance to marring and staining. Application areas vary from light manufacturing such as food and pharmaceutical process areas, to shopping centres, laboratories, hallways, offices and holding areas in commercial, healthcare, educational and display areas.

PRODUCT ADVANTAGES

- High gloss and clarity
- Good colour stability for interior floors
- Good chemical and stain resistance
- Universal applications

OPTIONS

Stonseal 787 is used to seal interior applications of Stonshield SLT, Stonshield UTS, Stontec ERF and Pro-Struct 513, and enhances the scratch resistant properties of Stonkote 723 and Stonlux SL-SA. It is an ideal binder system for "Pebble Paving" and its rehabilitation. If a matt finish is required, Stonseal 787 is overcoated with Stonseal GS7.

PACKAGING & COVERAGE

5 Litre kit, Part A and B
 Fine Texture Aggregate Finish, 2 to 3m²/litre/coat
 Medium Texture Aggregate and Flakes, 3 to 4m²/litre/coat
 Smooth roll-on sealer for flat surfaces, 5 to 6m²/litre/coat

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 Stonseal 787 between 16 to 32°C in a dry area. Avoid excessive heat and do not freeze.

TYPICAL PROPERTIES AT 25°C

Finish	Gloss
Colour	Clear
Consistency	Liquid
Volume Solids	100%
No. of Components	2
Mix Ratio by Volume	Mix complete kit
Pot Life	20 to 30 Minutes
Apply Over	Prepared Stonhard floor finishes and concrete
Apply By	Mohair roller, Squeegee, Notch Trowel and Spiked Roller, dependent on system
Initial Set	6 to 8 Hours – recoat 24 Hours – service 7 Days – full cure
Application Temperature Range	16°C to 30°C
Maximum Service Temperature	60°C Wet / Dry
Dew Point	Substrate to be 2°C above dew point
VOC Level	34g/litre
Chemical Resistance	Consult StonCor Technical Service
Hardness ASTM D2240, Shore D	85 to 90
Bond Strength ASTM D4541	2.7 MPa (100% concrete failure)

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, values obtained on the field applied materials may vary.

PLACEMENT GUIDELINES

SCOPE OF WORK (BOQ):

Prepare Surfaces and apply Stonseal 787 Clear Epoxy Sealer at specified spread rates to suit required surface finish.

SUBSTRATE PREPARATION:

For smooth concrete floor sealing:

Remove all 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 etching or grinding or light vacublasting to remove laitance and open all voids. The roughened surface should have a texture similar to 100-grit sandpaper, and minimum tensile strength of 1.5 MPa and moisture content of 5% maximum.

For Stonhard's Coloured Aggregate and Flake Systems:

Sweep and vacuum all excess unbound materials from the surface. De-nib the sharp edges using the edge of steel finishing trowel to reduce the profile if a Medium Texture is required. For a Fine Texture use a lightweight polishing machine or rubbing blocks taking care not to damage or discolour the finish. Re-sweep and vacuum all unbound materials and protect with plastic sheeting the unsealed surface from dirt, dust, moisture and foot traffic.

MIXING:

Empty the entire contents of the Base and Activator components into a clean, dry mixing container. Mix thoroughly for 2 minutes with an impeller fitted to a variable speed (400 to 600 rpm) mechanical mixer. Transfer material into another mixing container, scraping the sides and bottom of the container and remix for another 2 minutes. This step is critical to ensure complete cross-linking of components is achieved. Do not aerate mix nor mix by hand.

APPLICATION:

1. By short nap rollers – Apply 2 coats out of paint trays at 5 to 6m²/litre/coat.
2. White rubber squeegees – Pour mixed material in a bead line and spread evenly at 2 to 3m²/litre/coat. Roll material with a loop roller to level.
3. Notched trowels – Pour mixed material on floor and spread evenly with a 3mm notch trowel at a thickness of 1 to 1.5mm. Spike rollers are utilised by walking with spike shoes on the floor to level and deaerate the surface.
4. The use of floor lights is critical to ensure even spread and levelling without “pooling” has been achieved.

CURING:

At 25°C the coating system can be exposed to light traffic after 24 hours. Excessive traffic, aqueous cleaning and exposure to aggressive chemicals should only take place after 7 days when full cure has been achieved.

REFERENCE SAMPLE:

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

RECOMMENDATION:

- 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.