

PRODUCT DESCRIPTION

Stonset PC3 is a water-based, epoxy binder with Portland cement and aggregate. Stonset PC3 exhibits a tenacious bond to existing concrete. It is ideally suited for patching spalled concrete. Stonset PC3 can also be used as a repair mortar for filling form voids and honeycombs in vertical concrete surfaces. Stonset PC3 may be top-coated with many high performance coatings and toppings.

Note: NOT for use under vinyl ester or polyester materials.

USES/APPLICATIONS

- Restore deteriorated surfaces
- Fill voids on vertical surfaces

PACKAGING

Stonset PC3 is packaged in a 0.01 m³ unit.

Each unit consists of:

- (1) 1 gallon can of Amine
- (1) 1 gallon can of Resin

1 bag of cement aggregate blend

COVERAGE

A unit of Stonset PC3 will yield 0.01 m³

STORAGE CONDITIONS

Store all components between 16 to 30°C in a dry area. Keep out of direct sunlight. Avoid excessive heat and do not freeze. The shelf life is 2 years in the original, unopened container.

SUBSTRATE

Stonset PC3, with the appropriate primer, is suitable for application over concrete, wood, brick, quarry tile, metal or Stonhard Stonset grouts. For questions regarding other possible substrates or an appropriate primer, contact your local Stonhard representative or Technical Service.

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 TEMPERATURE CONSIDERATIONS

The temperature of the concrete to be repaired and the ambient air temperature should be at least 10°C while applying Stonset PC3. Stonset PC3 may be placed using conventional concrete placement and finishing tools. When mixing the 0.01 m³ unit, use a mixing blade.

PRIMING

Note: Have all application and related equipment ready for use before mixing. The amine and resin mixture alone is used as primer

PHYSICAL CHARACTERISTICS

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| Compressive Strength (ASTM C109) | 40 N/mm ² |
| Flexural Strength (ASTM C348) | 12 N/mm ² |
| Tensile Strength (ASTM C190) | 6 N/mm ² |
| Impact Resistance (ASTM D2794) | >18 Nm |
| Abrasion Resistance (ASTM D4060, CS-17) | 0.09 gm |
| Pot Life (@24°C) | 1 hour |
| Curing Times: (1/2 in. thickness @21°C) | 12 hours |
| VOC Content (ASTM D2639, Method C) | 0 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.

Mix each component to a uniform consistency. Pour the pre-measured amounts of amine and resin into a container and mix thoroughly for 2 minutes using a mixing blade.

Prime the area with mixed Stonset PC3 liquid. Apply at a coverage rate of approximately 2.7 to 3 m²/liter. Prime only as much surface as can be topped while the primer is still wet, approximately 4 hours at 24°C. If primer is allowed to cure before topping is applied, it will be necessary to re-prime.

MIXING

- Pre-mix individual components of Stonset PC3. Combine pre-measured Stonset PC3 amine and resin components and blend for two minutes using a mixing blade.
- Carefully add pre-blended Portland cement/aggregate mixture to the amine/resin mixture. Blend for 3 minutes.
- Apply to the surface by rubber float. Skim the surface with rubber float filling honeycombs and form voids. While rubbing the Stonset PC3 mortar into the void, brush away excess so that you do not add a significant thickness to the concrete surfaces.

When applied in this manner for filling form voids and honeycombs, Stonset PC3 can overcoated after 12 hours of cure.

Note: NEVER apply Stonset PC3 if temperatures are expected to drop below 4°C within 24 hours after application.

RECOMMENDATIONS

- Apply only on a clean, sound, properly prepared substrate.
- Minimum ambient, material and surface temperatures are 10°C at the time of application.
- Maximum ambient, material and surface temperatures are 29°C at the time of application.
- Relative humidity should be between 0 to 80%.
- Substrate temperature should be 3°C above the dew point.
- Application and curing times are dependent upon ambient and surface conditions. Consult Stonhard's Technical Service Department if conditions are not within recommended guidelines.

PRECAUTIONS

- Acetone is recommended for clean up of the Stonset PC3 material.
- Before handling and application of this material consult the MSDS sheets. As with any product, those handling Stonset PC3 materials should use proper safety practices. Safety glasses and impervious gloves are required when handling this material.

NOTES

- Material Safety Data Sheets for Stonset PC3 are available on line at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with product application, or to answer questions related to Stonhard's products.
- Requests for technical literature or service can be made through local sales representatives and offices worldwide.

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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