PRODUCT DESCRIPTION
Stonres SYN is a nominal 3/16 in./5 mm resilient, aliphatic polyurethane flooring system. The seamless Stonres SYN system recreates the appearance of a traditional wood teak deck while maintaining the acoustic, thermal insulation and ergonomic properties of the Stonres system. These characteristics combined with the system's corrosion, wear and slip-resistant properties make it the ideal outdoor solution for pool decks, patios and restaurants. The system is comprised of:

Stonres SYN Mortar
A two-component, UV-resistant, pigmented, aliphatic polyurethane mortar.

Stonres SYN Groove Filler
A two-component, UV-resistant, pigmented, aliphatic polyurethane.

Stonseal CF7
A two-component, clear, flat, high-performance, water-based, VOC-compliant, polyurethane coating.

PHYSICAL CHARACTERISTICS

VOC Content (ASTM 2369)	Mortar 14 g/l Sealer 47 g/l
Hardness (ASTM D-2240, Shore D)	35
Pot Life (@74˚F/23˚C)	60 min
Cure Rate (@74˚F/23˚C)	5-6 hours for initial set 24 hours for light traffic 7 days for ultimate physical properties

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.

OPTIONS
Groove Patterns
Custom patterns and plank widths can be achieved with Stonres SYN. Contact your local Stonhard representative or Technical Service for details.

PACKAGING
Stonres SYN is packaged in units for easy handling. Each unit consists of:

Stonres SYN Mortar
(8) 5 gallon pail of Polyol
(8) 3 gallon pail of Isocyanate

Stonres SYN Groove Filler
4 cartons each containing:
(1)1 gallon can of Polyol
1 foil bag of Isocyanate

Stonseal CF7
1.5 cartons, each containing:
1 foil bag of Isocyanate
(1) 1 gallon pail of Polyol

COVERAGE
Each unit of Stonres SYN will cover approximately 300 sq. ft./27 sq. m. at a nominal 3/16 in/5 mm thickness.

STORAGE CONDITIONS
Store all components of Stonres SYN between 60 and 85°F/16°C to 30°C) in a dry area. Avoid excessive heat, direct sunlight and do not freeze. The shelf life of the material is one year in the original, unopened containers.

COLOR
Stonres SYN is available in 2 standard colors. Custom colors are available upon request. Contact your local Stonhard Representative or Technical Service for details.

SUBSTRATE
Stonres SYN, with the appropriate primer, is suitable for application over properly prepared concrete, wood, steel or aluminum surfaces. It is not recommended for use over asphalt, mastic, gypsum-based products, brick or painted surfaces. 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. A flat, level substrate is required for Stonres SYN application and cannot be installed over a pitched surface.

The substrate must be clean, dry, free of contamination, and properly prepared utilizing mechanical methods before material application. Questions regarding substrate preparation should be directed to your local Stonhard representative or Technical Service.

PRIMING
The use of the Standard Primer/SL Primer priming system is required for all applications of Stonres SYN over concrete or wood. Metal substrates must be primed immediately following preparation with HT Primer.

The substrate must be free of voids and pinholes after priming and prior to application of the mortar. The primer must not be cured for longer than 24 hours to ensure proper intercoat adhesion.

MIXING
- Proper mixing is critical for the products to exhibit the proper application, cure properties and ultimate physical properties.
- Mechanical mixing is required for all components.
- See Stonres SYN Directions for details.

APPLYING
- DO NOT attempt to install material if the temperature of the Stonres SYN components and substrate are not within 50 to 95˚F /10 to 35˚C. The cure time and application properties of the material are severely affected if the temperatures are outside this range.
- Stonres SYN mortar material is mixed just prior to use in accordance with the prescribed directions. The mortar is then screed rake or notch trowel-applied and spike-rolled.
- After a minimum of 6 hours, the grooves may be routed into the Stonres SYN mortar.
- Apply Stonres SYN groove filler into the routed joints. Dependent on the design desired, the groove filler may be applied with a flat trowel or flat rubber squeegee.
- After a minimum of 12 hours since application of the joint sealant, sand the surface in one direction using 36-grit sand paper on an approved belt sander until uniform and all the excess groove filler has been removed.
- Apply the first coat of Stonseal CF7 with a roller.
- After 12 hours of cure, apply the second coat of Stonseal CF7. Allow a minimum of 12 hours of cure before foot traffic and 48 hours before washdown/cleaning procedures commence.

Note: Two coats of Stonseal CF7 are required for all applications of Stonres SYN.

- Detailed application instructions can be found in the Stonres SYN Directions.

NOTES
- Procedures for maintenance of the flooring system during operations are described in the Stonkleen Floor Cleaning Procedures Brochure.
- Specific information regarding chemical resistance is available.
- Safety Data Sheets for Stonres SYN are available online at www.stonhard.com under Products or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard products.
- Requests for technical service or literature can be made through local sales representatives and offices or corporate offices located worldwide.
- The appearance of all floor, wall and lining systems will change over time due to normal wear, abrasion, traffic and cleaning. Generally, high-gloss coatings are subject to a reduction in gloss, while matte-finish coatings can increase in gloss level under normal operating conditions.
- Surface texture of resinous flooring surfaces can change over time as a result of wear and surface contaminants. Surfaces should be cleaned regularly and deep cleaned periodically to ensure no contaminant buildup occurs. Surfaces should be periodically inspected to ensure they are performing as expected and may require traction-enhancing maintenance to ensure they continue to meet expectations for the particular area and conditions of use.

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