

### PRODUCT DESCRIPTION

Stonres STR is a nominal 1/8 to 3/16 in./3 to 5 mm resilient urethane floor system. This seamless, resilient, stain resistant floor has excellent ergonomic properties and formulated for applications where a seamless, ergonomic, high-performance finish is required.

Stonres STR is an excellent choice for healthcare facilities, pharmaceutical and other commercial applications that require excellent performance and aesthetics.

The system is comprised of the following components/layers:

#### Stonres STR Mortar

A three component, resilient mortar.

#### STR Undercoat

A pigmented, two component, UV resistant urethane undercoat.

#### Stonseal CF7

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

### OPTIONS

#### Cove base

To provide an integral seal at the joint between the floor and wall, cove bases in varying heights are available, contact your local Stonhard representative or Technical Service for details.

### PACKAGING

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

#### Stonres STR Mortar - 1/8 in./3 mm option

3.5 cartons each containing:

2 foil bags of Isocyanate

(7) 5 gallon pails of Polyol

and

3.5 cartons of STR Part D containing:

2 poly bags of additive

or

#### Stonres STR Mortar - 3/16 in./5 mm option

4.5 cartons each containing:

2 foil bags of Isocyanate

(9) 5 gallon pails of Polyol

and

4.5 cartons of STR Part D containing:

2 poly bags of additive

### PHYSICAL CHARACTERISTICS

<b>Hardness</b> .....	.60
(ASTM D-2240, Shore D)	
<b>Percent Elongation</b> .....	.51%
(ASTM D-638)	
<b>Impact Resistance</b> .....	140 in. lbs.
(ASTM D-2794)	
<b>Static Load Limit</b> .....	.001 in./0.025 mm
(ASTM F-970) (250 lb./113 kg. load)	
<b>Residual Indentation</b> .....	.014 % thickness
(ASTM F-1914) (140 lb./64 kg. load)	
<b>Abrasion Resistance</b> .....	.003 gm
(ASTM D-4060 CS-17)	
<b>VOC Content</b> .....	STR Mortar - 22 g/l
(ASTM D-2369, Method E) STR Undercoat - 94 g/l	
Stonseal CF7 - 47 g/l (Method C)	
<b>Cure Rate</b> .....	12 hours for foot traffic
(@77°F/25°C) 48 hours for normal operations	

**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.

#### STR Undercoat

0.5 carton containing:

2 foil bags of Isocyanate

(2) 1 gallon cans of Amine

#### Stonseal CF7

1 carton containing

1 foil bag of Isocyanate

(1) 1 gallon pail of Polyol

#### STR Topcoat Part C

0.5 carton containing:

4 poly bags of micro-texture

## COVERAGE

Each unit of Stonres STR will cover approximately 225 sq. ft./21 sq.m of surface at either the nominal 1/8 in./3 mm thickness option or the nominal 3/16 in./3mm thickness option.

## STORAGE CONDITIONS

Store all components of Stonres STR between 60 to 85°F/ 16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life of the mortar is 3 years, all other components have a shelf life of one year in the original unopened containers.

## COLOR

Stonres STR is available in 8 standard colors. Limited custom colors are also available. Contact your local Stonhard representative or Technical Service for details.

## SUBSTRATE

Stonres STR, with the appropriate primer, is suitable for application over concrete, wood or metal. 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 STR application and cannot be installed over a pitched surface. 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.

## PRIMING

The use of the Standard Primer/SL Primer priming system is required for all applications of STR 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 the start of the Mortar application and the primer layer 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 properties, cure properties and ultimate physical properties.
- Mechanical mixing is required for all components.
- See Stonres STR Directions for further details.

## APPLYING

- DO NOT attempt to install material if the temperature of the Stonres STR components and substrate are not within 60 to 85°F/16 to 30°C. **The cure time and application properties of the material are severely affected if the temperatures are outside of this range.**
- Stonres STR Mortar is applied with a rake and spike rolled.
- STR Undercoat is squeegee and backrolled.
- For flat coat, roller apply the first coat. When using Stonseal CF7, roller apply the first coat with the STR Topcoat Part C and allow 12 hours of cure time. Roller apply the second coat of Stonseal CF7 with STR Topcoat Part C.

**Note:** Detailed application instructions can be found in the Stonres STR Directions.

Allow a minimum of 12 hours of cure time before foot traffic and 48 hours before washdown/cleaning procedures commence.

## 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 in the Stonres Chemical Resistance Guide.
- Safety Data Sheets for Stonres STR are available on line at [www.stonhard.com](http://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 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.

### 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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