

### PRODUCT DESCRIPTION

Stonres RTZ is a nominal 3/16 in./5 mm resilient urethane flooring system. This easy to clean, seamless, resilient system is infused with rubber aggregates to provide exceptional acoustic efficiency and ergonomic comfort. The system combines superior aesthetics with excellent wear and stain resistance. It is comprised of:

#### **Stonres RTZ Base**

A three-component, UV resistant, resilient urethane mortar consisting of urethane resin, curing agent, and coarse rubber aggregate

#### **Stonres RTZ Grout Coat**

A two-component, clear, UV resistant, aliphatic, polyaspartic urethane grout coat

#### **Stonseal GS7 Clear Flat**

A two-component, non-reflective, waterborne, aliphatic polyurethane coating

### USES, APPLICATIONS

Stonres RTZ is ideal for lobbies, entrance ways, hallways, offices, laboratories and holding areas in healthcare, educational and recreational facilities, as well as light manufacturing areas such as pharmaceutical facilities. It provides an ergonomic, noise reducing surface which is ideal for foot and cart traffic.

### SUBSTRATE

Stonres RTZ is suitable for application over properly prepared concrete, wood or steel surfaces. It is not recommended for use over asphalt, mastic, gypsum-based products, brick or painted surfaces. These must first be removed by mechanical means to expose the substrate prior to overlayment.

### PACKAGING

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

#### **Stonres RTZ Base**

- 10 boxes, each containing:
  - 1 foil bag of Part A (curing agent)
- (10) 5 gallon pails of Part B (resin)
- 10 bags of Part C rubber aggregate

#### **Stonres RTZ Grout Coat**

- 0.5 carton containing:
  - 1 poly bag of isocyanate (curing agent)
  - (1) 1 gallon can of amine (resin)

### PHYSICAL CHARACTERISTICS

<b>Tensile Strength</b> . . . . .	1200 psi (ASTM C-307)
<b>Hardness</b> . . . . .	85 (ASTM D-2240, Shore A)
<b>Bond Strength</b> . . . . .	>300 psi (ASTM D-7234) . . . . . (100% concrete failure)
<b>Percent Elongation</b> . . . . .	150% (ASTM D-638)
<b>Impact Resistance</b> . . . . .	>60 in. lbs. (ASTM D-2794)
<b>Static Load Limit</b> . . . . .	0.002 in./0.05 mm (ASTM F-970) . . . . . (125 lb./57 kg. load)
<b>Resistance to Heat</b> . . . . .	Delta E <8 (ASTM F-1514) . . . . . (7 days @ 158°F/70°C)
<b>Residual Indentation</b> . . . . .	<1% thickness (ASTM F-1914) . . . . . (140 lb./64 kg. load)
<b>Abrasion Resistance</b> . . . . .	0.03 gm (ASTM D-4060 CS-17)
<b>Flammability</b> . . . . .	Class I (ASTM E-648)
<b>Noise Reduction Coefficient</b> . . . . .	0.05 (ASTM C-423)
<b>Slip Resistance Index</b> . . . . .	0.6 dry (ASTM F-1679) . . . . . 0.5 wet
<b>VOC Content</b> . . . . .	183 g/l(GS7) (EPA Method 24) . . . . . 50 g/l (CF7)
<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.

#### **Stonseal GS7 Clear Flat**

- 1 carton containing:
  - 1 pint can of Part A (curing agent)
  - (1) 1 gallon plastic pail of Part B (resin)

### LEED

Projects pursuing LEED EQ 4.2 should use Stonseal CF7 in lieu of Stonseal GS7.

### COVERAGE

Each unit of Stonres RTZ will cover approximately 210 sq. ft./19.5 sq. m of surface at a nominal 3/16 in./ 5 mm finished thickness.

## STORAGE CONDITIONS

Store all components of Stonres RTZ between 65 to 85°F/18 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life of the Base is 3 years, all other components are one year in the original, unopened container.

## COLOR

Stonres RTZ is available in 15 standard colors and an extensive color palette. Refer to the Stonres RTZ Color Sheet.

## SUBSTRATE PREPARATION

Proper preparation is critical to ensure an adequate bond. The substrate must be relatively level, deviations of more than 1/8 inch per foot may result in irregularities which will require patching. The substrate must be dry and free of all wax, grease, oils, fats, soil, loose or foreign materials and laitance. Laitance and unbonded cement particles must be removed by mechanical methods, i.e., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent and rinsing with clean water. The surface must show open pores throughout and have a sandpaper texture. For recommendations or additional information regarding substrate preparation, contact Stonhard's Technical Service Department.

## PRIMING

The use of the Standard Primer/SL Primer system is required for all applications of RTZ. The procedure is as follows:

Apply Standard Primer to the substrate. Next, apply the first coat of SL Primer. Then, apply a second coat of SL Primer 30 minutes after beginning the first coat. Both the Standard Primer and first coat of SL Primer must be wet while applying each coat of SL Primer. The primer system must be applied by squeegee and cure to a tack-free state before applying the Stonres RTZ. Stonres RTZ should be applied within 24 hours of applying SL-Primer.

## APPLYING

Application of the Stonres RTZ system is accomplished as follows:

1. Stonres RTZ Base material is mixed just prior to use in accordance with prescribed directions. The base material is then screed rake applied and spike rolled to finish.
2. After a minimum of 20 hours curing time, sand the surface of the RTZ Base using the recommended grit sandpapers.
3. Squeegee apply and backroll Stonres RTZ Grout Coat with a medium nap roller.
4. After 4 hours of minimum cure time, roller apply the first coat of GS7 Clear Flat.

5. After 2 hours of minimum cure time, roller apply the second coat of GS7 Clear Flat. Allow a minimum of 12 hours of cure before foot traffic and 48 hours before washdown/cleaning procedures commence.

## RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of the Stonres RTZ components and substrate are not within 65 to 85°F/18 to 30°C. **The cure time and application properties of the material are severely affected if the temperatures are outside of this range.**
- DO NOT use water or steam in the vicinity of the application. **Moisture can seriously affect the working time and other properties.**
- The use of NIOSH/MSHA approved respirators and safety glasses is recommended. The use of a NIOSH approved particulate respirator is required when sanding or grinding floor surfaces.
- Avoid contact with all liquid materials as they may cause skin and/or eye irritation. Workers should cover hands with impervious gloves.
- Use only with adequate ventilation.

## NOTES

- Procedures for cleaning of the flooring system during operations can be found in the Stonhard Floor Maintenance Guide.
- Specific information regarding chemical resistance is available in the Stonres Chemical Resistance Guide.
- Material Safety Data Sheets for Stonres RTZ are available online at [www.stonhard.com](http://www.stonhard.com) under Tech Info or upon request.
- A staff of technical service engineers is available to assist with installation or to answer questions related to Stonhard 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 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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### Worldwide Offices:

USA 800.257.7953  
Canada (905)430.3333

Mexico (52)55.9140.4500  
South America (54-3327)44.2222

Europe (32)2.720.8982  
Middle East (971)4.3470460

Africa (27)11.254.5500  
Asia (86)21.5466.5118



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[www.stonhard.com](http://www.stonhard.com)

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