

PRODUCT DESCRIPTION

Stonres NVL is a nominal 1/8 inch/3mm resilient urethane floor system. This seamless, resilient, stain resistant floor has exceptional acoustic efficiency and the flake infused pattern offers a valuable design component. It is comprised of:

Stonres NVL Basecoat

A two component, resilient mortar.

Stonres NVL Undercoat

A pigmented two component urethane undercoat.

Stontec Flakes

Decorative flakes available in standard and custom colour tweed blends.

Stonres Grout Coat

A two component, UV resistant, urethane sealer.

Stonseal GS7 Clear Flat

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

USES, APPLICATIONS

Applications vary from light manufacturing such as pharmaceutical processing to schools, hallways and healthcare applications. It is ideal for open space projects.

OPTIONS

Cove base

To provide an integral seal at the joint between the floor and wall, cove bases at varying heights are available.

PACKAGING

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

Stonres NVL Basecoat

- (8) 5 gallon pails of Part B (resin)
- 8 cartons each containing:
- 1 foil bag of part A (curing agent)

NVL Undercoat

- 0.5 carton containing:
- 2 poly bags of isocyanate (curing agent)
- (2) 1 gallon cans of amine (resin)

NVL Flakes

- 0.1 box of coloured flakes

PHYSICAL CHARACTERISTICS

Hardness	80
(ASTM D-2240, Shore A)	
Bond Strength	>300 psi
(ASTM D-7234)	(100% concrete failure)
Percent Elongation	200%
(ASTM D-638)	
Impact Resistance	140 in. lbs.
(ASTM D-2794)	
Static Load Limit	0.001 in./0.025 mm
(ASTM F-970)	(250 lb./113 kg. load)
Resistance to Heat	Delta E 1.0
(ASTM F-1514)	(7 days @ 158°F/70°C)
Residual Indentation	0.14 % thickness
(ASTM F-1914)	(140 lb./64 kg. load)
Abrasion Resistance	0.03 gm
(ASTM D-4060 CS-17)	
Flammability	Class I
(ASTM E-648)	
Noise Reduction Coefficient	0.05
(ASTM C-423)	
Slip Resistance Index	0.8 dry
(ASTM F-1679)	0.5 wet
VOC Content	183 g/l(GS7)
(EPA Method 24)	50 g/l (CF7)
Cure Rate	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.

Stonres Grout Coat

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

Stonseal GS7 Clear Flat

- 1 carton containing:
- 1 foil bag of part A (curing agent)
- (1) 1 gallon pail of part B (resin)

NVL Topcoat Part C

- 0.25 carton containing:
- 4 poly bags of micro texture

LEED

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

COVERAGE

Each unit of Stonres NVL will cover approximately 210 sq.ft/19.5 sq.m of surface at a nominal 1/8in/3mm thickness.

STORAGE CONDITIONS

Store all components of Stonres NVL 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 basecoat is 3 years, all other components are one year in the original unopened containers.

COLOUR

Stonres NVL is available in 8 standard colours. Limited custom colours are also available.

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 Standard Primer/SL Primer is required for all applications of NVL. 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 the first coat of SL Primer must be wet when applying each coat of SL Primer. The primer system must be applied by squeegee, cure to a tack-free state and be free of any pinholes or bubbles before applying Stonres NVL. Stonres NVL should be applied within 24 hours of applying SL Primer.

APPLYING

Application of Stonres NVL is accomplished as follows:

1. Stonres NVL Basecoat is mixed just prior to use in accordance with prescribed directions. The material is then applied with a notched rake and spike rolled.
2. After a minimum of 20 hours of cure time, transitions can be sanded smooth with random orbit sanders.
3. Squeegee and backroll Stonres NVL Undercoat and broadcast the decorative flakes into the wet material.

4. After 4 hours of cure time, squeegee apply and backroll Stonres Grout Coat with a medium nap roller.
5. After 4 hours or cure time, lightly sand the floor with an orbital floor sander and 100 grit sanding screens. Vacuum all dust.
6. Roller apply the first coat of Stonseal GS7 Clear Flat. After 2 hours of cure time, roller apply the second coat of GS7 with NVL Topcoat Part C. Allow a minimum of 12 hours of cure time before foot traffic and 48 hours before washdown/cleaning procedures commence.

HIGH HUMIDITY APPLICATIONS

You may experience installation difficulties when applying Stonres NVL Undercoat and Stonres Grout Coat in high humidity conditions. Under these conditions, the working time of the material is greatly reduced as the excessive moisture present in the atmosphere accelerates the cure.

To slow down the cure rate, limit the amount of moisture coming in contact with the material. It is common practice, once materials are mixed, to pour the entire bucket onto the floor. Though this is advantageous when working with epoxies, it can cause problems when working with these unique urethanes. Increase the open time by pouring only a portion of the material onto the floor, while leaving the rest in the bucket until it is ready to be applied. This limits the amount of material being exposed to the air at one time. The cure rate of these urethane materials is not accelerated when sitting in the bucket. NEVER mix multiple mixes at once; only mix one mix at a time!

Low humidity will affect this product. When humidity is low it can take more than 4 hours to cure. The product may stay slightly soft for up to 12 hours. This will not affect the overall performance of the finished system. As the material cures the physical properties will develop their full potential.

RECOMMENDATIONS

- DO NOT attempt to install material if the temperature of the Stonres NVL 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 safety glasses is required. 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 NVL are available on line at www.stonhard.ca 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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