


**PRODUCT DESCRIPTION**

Polished combines the urban toughness of stained concrete with a smart, contemporary, mottled look. Polished incorporates decorative stains with aggregate for a slightly textured surface and a floor that surpasses its competition in both appearance and performance.

**USES, APPLICATIONS**

Polished is a seamless and decorative flooring system engineered with a textured surface for slip resistance in commercial applications. It is ideally suited for use in retail stores, lobbies, food courts, restaurants, studios, galleries, courtyards, walkways, stadiums, museums, zoos and a wide variety of public spaces.

**SUBSTRATE**

Polished is suitable for application over properly prepared concrete, wood or metal. Not recommended over brick, tile, asphalt, mastic, gypsum-based products or painted surfaces. These must first be removed by mechanical means prior to priming and overlayment.

**SYSTEM OPTIONS**

Polished is available in both matte and gloss finishes.

**THICKNESS**

Polished is installed at a nominal 2mm thickness.

**STORAGE CONDITIONS**

Store all components of Polished between 60 to 85°F/16 to 30°C in a dry area. Avoid excessive heat and do not freeze. The shelf life is 3 years in the original, unopened container.

**COLOR**

Polished is available in 15 base colors. Custom colors are available upon request. The color and pattern of Polished will vary slightly due to the nature of its hand-applied installation. Patterning intensity and frequency can be managed for customer preference during the application. Refer to the Polished Color Sheet.

**PHYSICAL CHARACTERISTICS**

Tensile Strength (ASTM D-638)	1,600 psi
Flexural Strength (ASTM D-790)	4,000 psi
Flexural Modulus of Elasticity (ASTM D-790)	1.0 x 10 <sup>6</sup> psi
Hardness (ASTM D-2240, Shore D)	85-90
Abrasion Resistance (ASTM D-4060, CS-17)	0.03 gm max. weight loss
Impact Resistance (D-2794)	160 in/lbs
Flammability (ASTM E-648)	Class 1
Linear Coefficient of Thermal Expansion (ASTM C-531)	14 x 10 <sup>-6</sup> in./in. °F
VOC Content (D-2269, Method E)	Primer 57 g/l Undercoat 30 g/l Sealer 34 g/l
Cure Rate (@77°F/25°C)	8 hours for a tack-free surface 24 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.

**SUBSTRATE PREPARATION**

Proper preparation is critical to ensure an adequate bond. 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, eg., abrasive blasting or scarifying. Other contaminants may be removed by scrubbing with a heavy-duty industrial detergent (Stonkleen TD9) 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 Liquid Elements' Technical Service Department.

## RECOMMENDATIONS

- DO NOT attempt to install the material if the temperature of the Polished components is above 85°F/30°C. Higher temperatures will cause the material to harden more quickly than desired. Conversely, if the temperature of the components is 60°F/16°C or lower, Polished will be stiff and hard to apply.
- DO NOT use water or steam in the vicinity of the application. Moisture can seriously affect the working time and other properties.
- Avoid contact with all liquid Parts A and B as they may cause skin and/or eye irritation. Workmen should cover hands with impermeable rubber gloves.
- The use of safety glasses and impervious gloves is required during mixing and application.
- Use only with adequate ventilation.

## NOTES

- Detailed instructions on application and installation can be found in the Polished Directions.
- Procedures for maintenance of the flooring system during operations are described in the Facility Maintenance and Cleaning Services Guide available at [www.stonkleen.com](http://www.stonkleen.com).
- Safety Data Sheets for Polished Epoxy are available online at [www.liquidelements.com](http://www.liquidelements.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 Liquid Elements' products.
- Requests for technical literature or service 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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