

Potassium Silicate Coating

For use on all masonry/mineral surfaces. 92% vapor permeable when applied directly to masonry. Color fast. Withstands extreme climate conditions and is a water repellent. This coating can be applied over latex and acrylic paints, but doing so will minimize the overall effectiveness of the Potassium Silicate. Similar coatings have been used in Europe for over 160 years and are now produced for the first time in North America. Cathedral Stone's Potassium Silicate Coating combines the advantages of silicate/mineral and silicone coatings. Unlike latex and acrylic coatings, Potassium Silicate Coating forms a molecular bond with the masonry substrate. Potassium Silicate Coating is a one-part system.

Features and Benefits

- Bonds to masonry, WILL NOT PEEL
- 92 perm (elastomeric/acrylic are 7-8 perm)
- Protects steel reinforcement
- Will not burn
- Not affected by freeze/thaw
- Water Repellent
- No VOCs
- Color fast

Application Procedures

Surface Preparation

Potassium Silicate Coating should only be used by experienced users. Potassium Silicate Coating can be applied to any sound masonry or plaster surface. (Do not use on wood, plastic, or apply over oil or gloss coating). The surface must be clean, solid, dry and free from efflorescence. The surface must be completely dry at the time of application.

While Potassium Silicate Coating can be applied over existing paint, it is highly recommended that most, if not all, of any existing paint be removed. Potassium Silicate Coating is vapor permeable and highly breathable ONLY when applied directly to the substrate.

Potassium Silicate Coating is designed for vertical surfaces only. Horizontal surfaces, especially where water can pool, are not suitable for application. Not recommended for surfaces used for foot-traffic.

Cracks and spalls must be repaired and cured before coating. Cracks can be filled with Jahn M31, M32, or M40 mortars. To ensure even penetration of the coating, make sure repairs use materials that are compatible to the substrate.

Temperature (ambient and substrate) must be at least 45° F (8° C) and below 90° F (32° C). Do not apply when precipitation is expected within 48 hours of application. Do not apply when the temperature is expected to reach the dew point within 24 hours. Protect adjoining surfaces from splashes.

Potassium Silicate Coating can only be removed while wet. Once Potassium Silicate Coating dries it CANNOT be removed.

Mixing

Do not mix Potassium Silicate Coating with water. If CSP Coating needs to be thinned out, add Cathedral Stone's Liquid Silicate until the desired consistency is reached. Mix with a drill prior to use. When installing multiple coats, be sure to "box-mix". ("Box-mixing" is the blending of coating by pouring alternately between two containers). This will help alleviate minor color inconsistencies between batches.

Application

Protect all areas not to be coated prior to application. Substrate must be completely dry before coating. Do not work when precipitation is expected within 48 hours of installation. The coating needs adequate time to bond to the substrate and moisture disrupts this curing process. Apply liberally and spread well, filling all pores and cracks. Work wet into wet. Brushing increases the absorption of the coating into the masonry, resulting in a longer lasting, more durable coating. Spraying and rolling the coating is

also possible. Allow the first coat to dry at least 12 hours. Apply a second coat in the same fashion; work wet into wet.

Important Points

- Make sure the substrate is completely dry and there is no expected dew.
- Protect coatings from all forms of moisture: rain, dew, snow, etc. for 48 hours.
- Temperature must be at least 45°F (8°C).
- Do not add water to Potassium Silicate Coating.
- Always work wet into wet.

Clean Up

Place tools in clean water when pausing work (15-30 minutes or more). Clean tools with clean water after finishing work. Dried Potassium Silicate Coating is insoluble in water. Potassium Silicate Coating can be removed from non-porous surfaces with clean water while still wet.

Packaging

Consists of 25 kg of Potassium Silicate Coating in a 6-gallon plastic pail.

Coverage

Coverage depends on the absorption and structure of the substrate. Determine coverage with a trial application. One unit of Cathedral Stone's Potassium Silicate Coating (approx. 5.0 gallons) will cover approx. 1200 sq. ft. (6 to 7 mils thick) for a single coat and approx. 750 sq. ft. (10 to 11 mils thick) when two coats are applied.

Coverage rates will generally be higher with darker colored coatings.

Safety Information

Eye protection should be worn during mixing to protect from splashing. Avoid contact with skin and mucous membranes. Work in well ventilated areas.

Storage and Shelf Life

This product must be stored at temperatures above freezing and below 78°F -- and at low humidity. DO NOT ALLOW PRODUCT TO FREEZE. Do not store in direct sunlight. The shelf life of an unopened container is 1 year.

After use, fully seal any unused portion in its original container prior to storage. If the product was previously opened or was stored longer than a year, test in an inconspicuous location for effectiveness.

Warning

Not for internal consumption. Keep out of reach of children and animals. Consult Material Safety Data Sheet (MSDS) for specific information.

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