

Cathedral Stone Stain Kit

Pigmented Stain for Jahn Restoration Mortars

For modifying the appearance of repairs made with Jahn Restoration Mortars. CSP Stains can be used to create the appearance of veining or other surface effects. CSP Stain is recommended for use on Jahn Mortars only.

CSP staining fixative allows the iron-oxide pigments to adhere to the surface of Jahn repair, but does not harm the surrounding stone or significantly impede vapor transmission.

Features and Benefits

- **Blends New Masonry with Old:** For adjusting color matches and locking colors in.
- **Compatible with Masonry:** Contains natural iron oxide pigments and potassium silicate.
- **Contains No Synthetic Polymers:** Remains breathable.

Application Procedure

Allow masonry repairs made with Jahn Restoration Mortar to dry for at least a week before evaluating the color of the repair. If the color needs modification, the surface color of the repair may be enhanced by applying a pigmented stain.

Once the repair has cured and is completely dry, the following procedures should be performed.

Testing

It is essential that tests of one or more colors be carried out and evaluated prior to full-scale use. Prepare several test samples of the stain, varying the pigment ratios. Apply the mixtures to scrap masonry until a close color match is achieved. Record all ratios used and label test areas accordingly.

Mixing

Add pigment (or mixture of several pigments) in small amounts (approximately 1/8 tsp.) to the CSP liquid fixative to achieve an approximate ratio of 1 tsp. pigment to 2 cups CSP fixative. Stir.

Application

Using a brush or sponge, carefully apply the stain to repair area. Do not overload the brush. This can cause running or streaking. You must stir pigments thoroughly before each loading of the brush. Be sure not to overlap strokes and **keep the stain off of the original masonry.**

If the CSP Stain is accidentally splashed or spilled on the surrounding masonry (or on clothing), it should be cleaned off immediately using mild soap and water.

Allow CSP Stain to air dry. Make sure the color match is satisfactory. Apply a second coat of stain within 30 minutes if the color is not dark enough. The color may be lightened by removing some of the stain. To do so, pass over the surface with a clean damp sponge, soon after the application.

Clean Up

Clean tools with clean water immediately after finishing work. Remove CSP Stain from non-porous surfaces with clean water before it dries.

Safety Requirements

It is recommended that safety goggles, gloves, and a dust mask equipped with P-2 filters (or equivalent) be worn for protection during mixing and application.

Limitations

- Ambient temperature range for application should be 40° F to 90° F with low to average humidity.
- Do not add latex or acrylic to CSP Stain or use them as surface preparation materials.
- Will not work on old mortar.
- **Once the stain has dried the color cannot be changed.**
- CSP Stains are used to change or darken the color of a repair, but cannot be used to lighten.

Packaging

Cathedral Stone Stain Kit: contains 1/2 gallon of CSP fixative and 9 pigment colors. (Pigment colors: brown, red brown, yellow, black, green, red, orange, brown purple, and white.)
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CSP MORTAR STAINING INSTRUCTIONS FOR JAHN PATCHES

If the appearance of the Jahn patch is not satisfactory after the patch has been cured and allowed to dry for at least a week, the surface color of the patch may be enhanced by applying a pigmented stain. The appearance of veining may also be possible. The CSP staining fixative allows the iron-oxide pigments to adhere to the surface of the patch, but does not harm the surrounding stone or significantly impede vapor transmission. **CSP Stain is recommended for use on Jahn Mortars only.**

Once the patch has cured and is completely dry, the following procedures should be performed.

MIXING AND APPLICATION PROCEDURE

Prepare test samples of stain, varying the iron-oxide pigment ratios, and apply them to Jahn patches until a close color match is achieved. Be sure to record all ratios used (See custom formula page) and label test areas accordingly. It is recommended that protective gloves and goggles be worn when mixing and applying stain.

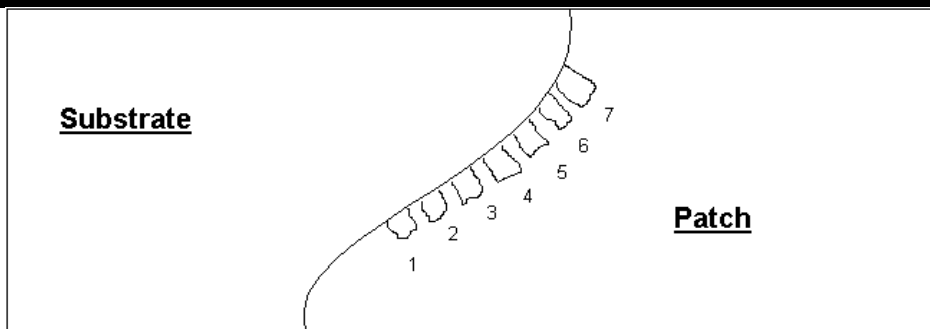
1. Add small amounts - 1/8, 1/4, or 1/2 tsp. of pigment (or mixture of several pigments) to the CSP liquid fixative (Start with 1/4 cup or 100ml) to achieve a custom stain formulation (See sample sequence of formulations on custom formula page). Stir.
2. Using a brush or sponge, apply stain formulations to the patch. **DO NOT OVERLOAD THE BRUSH.** This can cause running or streaking. You **MUST** stir pigments thoroughly before each loading of the brush. **Keep the stain off the original masonry .**
3. If the stain is splashed or spilled on the surrounding masonry (or clothes), it should be cleaned off immediately using mild soap and water. Stain solution can be corrosive to metal surfaces – take proper precautions.
4. Allow the stain to air dry. Make sure the color match is satisfactory.
5. Apply a second coat of stain when dry if the color is not dark enough to obtain an acceptable match. The color may be lightened by passing over the patch with a clean damp sponge soon after the application.

**ONCE THE STAIN HAS DRIED THE COLOR CANNOT BE
CHANGED.**

Custom Formula Worksheet For CSP Stains

Use the chart below to help record your custom stain formulas. The examples below provide a template to follow. Formula #2 is based on formula #1. Formula #3 is based on #2. This progression allows you to keep adding pigment into the same test container until the desired color is achieved. If you find your colors are not in the range you want them to be, simply empty your test batch and start again using new colors and new proportions. Draw a diagram of the patch and substrate to record where the formulas were placed on the wall (See Diagram at bottom of page). (**Be sure to use color numbers in formulas [i.e. 610] to ensure accuracy when recording formulas). Several colors may be needed and can be produced during this exercise.

<p>1. <i>Example</i></p> <p>100ml - of CSP Stain Fixative</p> <p>1/4 tsp. – 610 Brown</p>	<p>2. <i>Example</i></p> <p>100ml – of CSP Stain Fixative</p> <p>1/4 tsp. – 610 Brown 1/8 tsp. – 110 Red Orange</p>	<p>3. <i>Example</i></p> <p>100ml – of CSP Stain Fixative</p> <p>1/2 tsp. – 610 Brown 1/8 tsp. – 110 Red Orange</p>



Staining Diagram