Part 1 GENERAL

1.1 RELATED SECTIONS

1. General Conditions as applicable.
2. Section 08 03 50 20: Conservation of Wood Windows.
3. Section 08 30 50 30: Wood Epoxy Consolidation
4. Section 09 03 01 01: Surface Preparation
5. Section 09 91 00: Painting and Finishing

1.2 DESCRIPTION

1. The work in this section consists of epoxy patching for filling and making non structural repairs on wood which has been previously treated with epoxy consolidant. The intention is to patch and fill checks previously treated with epoxy consolidant. This shall be done in such a way that the original profile is restored.

1.3 WORKMANSHIP

1. Work of this section shall be completed by individuals with a minimum of two (2) years experience at this type of work.
2. Follow Technical Data and Instruction sheets provided by manufacturer.

1.4 SUBMITTALS

1. Contractor shall complete the work described in this section on one (1) sample window sills identified beforehand by the Project Consultant. This work shall be executed under direct review by the Consultant. Acceptance of the completed sample by the Consultant shall be necessary before additional consolidation work proceeds.
2. Provide Consultant five days notice prior to undertaking work on this sample.

1.5 PRODUCT STORAGE AND HANDLING

1. Deliver epoxies in manufacturer's original, unopened containers and store at ambient temperature or as recommended by manufacturer.
2. Do not use epoxies which have exceeded manufacturer's shelf life.
3. Epoxies which have frozen since their manufacture are not to be used and are to be removed from site.
4. Follow safety precautions of epoxy as defined by product manufacturer. Observe good housekeeping practices when working with epoxies.

5. Flammable products may not be brought within 20 feet of historic building during hours of work or be stored overnight on site.

1.6 PROJECT CONDITIONS

1. Epoxy applications are to be performed in favorable weather conditions as defined herein and by manufacturer. The temperature range within the work area shall be between 60 to 90 degrees F.

2. Wood to be consolidated must be dry, have moisture content below 18% by weight and must have been previously treated with epoxy consolidant. Protect area from moisture by use of a polyethylene tent until epoxy has completely cured.

3. Epoxy patch must be within a temperature range of 60 to 90 degrees F. at the time of application. Wood within 3 inches of the patch area is to be within the temperature range of 45 to 90 degrees F. at the time of application. Use of a heated enclosure around the work area is acceptable. Shade mixing and application area from direct sunlight. Provide shade to application area for minimum of 8 hours following application.

4. Area is to be secured from public use during epoxy application. Secure areas as necessary.

5. Mask or otherwise protect surrounding or adjacent historic fabric from all activities associated with this work. No fastenings associated with hoarding or other protections shall be installed in historic material without prior approval of consultant.

Part 2 PRODUCTS

2.1 MATERIALS

1. Epoxy Patch: ConServ Flexible Epoxy Patch 200
   Available from: Conserv ™ - Contact: Bruce Wipple
   Phone (973) 579-1112

2. Alternate Epoxy Patch, meeting performance characteristics of that specified, may be submitted for review by Consultant.

3. Fumed Silica: Fumed silica or equal, as reviewed by Consultant, may be used to thicken the patch to enhance tooling and application.

Part 3 EXECUTION

3.1 INSPECTION

1. Wood must have been previously treated with epoxy consolidant before patching. Verify conditions and proposed treatment with Project Consultant.

3.2 PREPARATION

1. Refer to Section 08 03 50 31: Wood Epoxy Consolidation for epoxy consolidation preparation and application.

2. Protect decayed area from moisture until patch has been applied and has completely set. Wood to be patched must be dry and have a moisture content of less than 18%.

3. Protect vegetation and all building fabric from damage, spills or drips.

3.3 APPLICATION

1. Epoxy patch may be applied with a putty knife, trowel or similar tool.

2. Apply patch to properly prepared cavities or checks. Do not apply in thicknesses greater than 1 1/2 inches or in any one area exceeding one quart at one time. Allow epoxy to set before applying additional layers.

3. Where necessary the patch material shall be mixed at a low viscosity and cast to form the desired shape. Use butcher's wax as a release on the form. After the patch has cured remove all traces of the release with varsol to ensure adhesion of paint films.

4. Slightly overfill voids and, after curing, plane, tool and sand surface smooth to remove excess epoxy, restore profile and to expose wood. Plane, tool and sand sill smooth to remove all excess epoxy and restore profile.

3.4 CLEAN UP

1. Following application leave all areas free and clean of epoxy. Discard unused epoxy, containers, tools and towels in accordance with any local, Provincial and Federal regulations.

End of Section 08 03 50 31