PART 1 GENERAL

1.1 SECTION INCLUDES
A. Epoxy Resin Window Stools

1.2 REFERENCE STANDARDS
D. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.

1.3 SUBMITTALS
A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Specimen warranty.
C. Shop Drawings: Complete details of materials and installation.
D. Test Reports: Chemical resistance testing, showing compliance with specified requirements.
E. Installation Instructions: Manufacturer's installation instructions and recommendations.
F. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of window sills or stool surfaces.

1.4 QUALITY ASSURANCE
A. Fabricator Qualifications: Same fabricator or supplier of counter top materials or approved alternative.

1.5 DELIVERY, STORAGE, AND HANDLING
A. Store products in manufacturer's unopened packaging until ready for installation.
B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.6 FIELD CONDITIONS
A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 WINDOW STOOLS
A. Epoxy Resin Window Stools / Sills: Filled epoxy resin molded into homogenous, non-porous sheets; no surface coating with color and pattern consistent throughout thickness.
1. Manufacturers:
   a. Total Laboratory Solutions; www.DuratopEpoxy.com – 480.488.6421

2. Flat Surface Thickness: Minimum 3/4 inch (19 mm), nominal. Maximum 1 inch (25 mm)
3. Flammability: Self-extinguishing, when tested in accordance with ASTM D635.
6. Exposed Edge Shape: 1/8 inch bevel or 3/16 inch radius exposed edges.
7. Maximum length without seam, up to 97 inch.

3.1 ACCESSORY MATERIALS
   A. Adhesives: Chemical resistant waterproof adhesive as recommended by manufacturer of materials being joined.
   B. Fasteners: Size and type to suit application, where applicable.
   C. Pins: Of size and type to suit application; galvanized or chrome-plated finish in concealed locations and stainless steel or chrome-plated finish in exposed locations, where applicable.

3.2 FABRICATION
   A. Fabricate window sills in the largest sections practicable, with top surface of seamed joints flush.
      2. Fabricate to overhang fronts and ends of wall sills 1 inch maximum.

PART 3 EXECUTION
4.1 EXAMINATION
   A. Do not begin installation until substrates have been properly prepared.
   B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
   C. Verify that wall surfaces have been finished.

4.2 PREPARATION
   A. Clean surfaces thoroughly prior to installation.
   B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

4.3 INSTALLATION
   A. Securely attach epoxy resin sill / stool material to window openings using adhesive or silicone. Make flat surfaces level; shim where required.

4.4 TOLERANCES
   A. Variation from Horizontal: 1/8 inch in 10 feet, maximum.
   B. Offset from Wall, Stools: 1/8 inch maximum; 1/16 inch minimum.
   C. Field Joints: 1/8 inch wide, maximum.
   D. Overhang epoxy resin sill material minimum ¼ inch to 1 inch maximum.
   E. Sills to be rectangular in shape with finished front edges and at the overhangs.

4.5 CLEANING and PROTECTION
   A. Clean surfaces thoroughly.
   B. Protect installed products until completion of project.
   C. Touch-up, repair or replace damaged products before date of substantial completion.

END OF SECTION