

**Note to Specifiers:** This specification for **PermChip** Granite Chips has been provided in CSI format. Contact **SEK-Surebond, Inc. at (800) 932-3343** for other formats you may require.

*This Permeable Granite Aggregate section is intended to incorporate the specific elements that make up a good quality product and calls out some installation methods that help produce a good quality installation. The format should be modified to fit within the larger set of specifications used on your project. The specifications for Polymeric Sand are often not freestanding, but are included into the Materials, Submittal, Installation or other portions of the sections on Unit Paving.*

## **SECTION 1 - PERMEABLE WASHED GRANITE AGGREGATE CHIPS**

### **PART 1 - GENERAL**

#### **1.01 SUMMARY**

- A. **Section Includes:** Furnishing of all labor, materials, services and equipment necessary for the supply and installation of permeable aggregate chips to concrete permeable pavers as indicated on drawings and as specified herein.
- B. **Related Sections:**
  - 1. Section 02783 - Interlocking Concrete Unit Paving
  - 2. Section 02780 - Clay Unit Pavers
  - 3. Section 03100 - Concrete Work

#### **1.02 REFERENCES**

- A. **Applicable Standards:** The following standards are referenced herein.
  - 1. American Society for Testing and Materials (ASTM)

#### **1.03 SYSTEM DESCRIPTION**

- A. **High Strength Crushed and Washed Granite** - Crushed, washed granite chips conforming to ASTM #9, crushed and washed to a 100% fractured surface for use in standard and narrow joints.

#### **1.04 SYSTEM PERFORMANCE REQUIREMENTS**

- A. **Stabilizes Permeable Pavement Systems** - Allows surface water filtration thru joints of permeable systems.

- B. **Independent Laboratory:** Testing shall be performed by an independent laboratory meeting the requirements of ASTM #9 and certified by the United States Bureau of Standards. Testing laboratory shall obtain all washed granite chip materials.

#### 1.05 SUBMITTALS

- A. **General:** Submit listed submittals in accordance with conditions of the Contract and with Division 1 Submittal Procedures Section.
- B. **Product Data:** Submit product information, including manufacturer's specifications, installation instructions, manufacture's recommendations, and manufacturer's certification or other data substantiating the product complies with requirements of these Contract Documents.
- C. **Manufacturer's Certification:** Provide certificates signed by manufacturer or manufacturer's representative certifying that the materials to be installed comply in all respects with the requirements of this specification.
- D. **Installer:** The installer shall provide a list of projects, including references with contact information, demonstrating at least 5 years of experience in the application of the washed granite chips or similar materials.

#### 1.06 QUALITY ASSURANCE

- A. **Manufacturer:** The manufacturer shall have no less than 5 years experience in manufacturing said materials.
- B. **Installer:** The installer shall demonstrate to the satisfaction of the Architect/Engineer an acceptable level of experience in the installation of the washed granite chips or similar products.
- C. **Pre-Installation Conference:** Prior to installation of granite chips, conduct meeting with the installer, general contractor and Architect/Engineer, owner's representative, and washed granite chips manufacturer's representative to verify and review the following:
  - 1. Project requirements for materials and installation as set out in Contract Document.

2. Manufacturer's product data including application instructions.
3. General site conditions, schedule, coordination with other activities, line and grade of the work, substrate conditions, procedures for substrate preparation and installation.

#### **1.07 DELIVERY, STORAGE AND HANDLING**

- A. **Delivery:** Deliver packaged materials to project site in original, undamaged, dry bags, with manufacturer's labels intact.

#### **1.08 MATERIALS**

- A. The product shall be manufactured as superior strength natural crushed Granite chip.
- B. The product will be 100% fractured.
- C. The material shall be washed granite fractured chips.
- D. The material shall meet ASTM #9 stone specification.
- E. The material shall comply with the criteria in 1.04 of this section.

#### **1.09 PROJECT CONDITIONS**

- A. Prior to installation of the granite chips, pavement joints and surfaces are to be completely clean of soils and sands.
- B. Product shall be manufactured to be able to be used on patios, walkways, paths, driveways, commercial and pedestrian areas.
- C. Paver joint depth shall be 1½" minimum.
- D. Follow manufacturer's recommendations for coverage guidelines. Coverage will vary depending on the shape, size and depth of the pavers.

#### **1.10 EXECUTION**

- A. Following initial compaction of paving units, distribute the granite chips over top of the pavers and sweep into the full depth of the joints.
- B. For concrete pavers, run a vibrating compactor over the pavement to shift sand particles into the joints.
- C. Sweep additional granite chips into the joints, not rising above ¼" below the paver edge or bevel depending upon which paver product was used for the project.

D. Remove any excess granite chips from the surface.

END OF SECTION