

# EXPECTED IMPLEMENTATION JANUARY 2016

## 932 NONMETALLIC ACCESSORY MATERIALS FOR CONCRETE PAVEMENT AND CONCRETE STRUCTURES.

(REV 4-3-15) (FA 4-14-15) (1-16)

SUBARTICLE 932-1.3.2 is deleted and the following substituted:

### 932-1.3.2 Physical Requirements:

| Silicone Sealant Type  | Test Method             | Type A             | Type B               | Type C               | Type D          |
|--|-------------------------|--------------------|----------------------|----------------------|-----------------|
| Flow   | ASTM D5893              | No Flow            |                      |                      |                 |
| Slump (maximum)  | ASTM D2202              | 0.3 inches         |                      |                      |                 |
| Extrusion rate (minimum)   | ASTM C1183, Procedure A | 20 ml/min          | 20 ml/min            | 20 ml/min            | 20 ml/min       |
| Tack-free time at 77 ± 3°F and 45 to 55% Relative Humidity                               | ASTM C679               | 90 minutes maximum | 180 minutes, maximum | 180 minutes, maximum | 20 – 60 minutes |
| Specific gravity   | ASTM D792, Method A     | 1.1 to 1.515       | 1.10 to 1.40         | 1.1 to 1.5           | 1.26 to 1.34    |
| Durometer hardness, Shore A (Cured seven days at 77 ± 3°F and 50 ± 5% Relative Humidity) | ASTM D2240              | 10-25              |                      |                      |                 |
| Durometer hardness, Shore 00 (Cured 21 days at 77 ± 3°F and 50 ± 5% Relative Humidity)   | ASTM D2240              |                    | 40-80                | 20-80                |                 |
| Tensile stress (maximum) at 150% elongation  | ASTM D412 (Die C)       | 45 psi             | 40 psi               | 15 psi               |                 |
| Elongation (Cured seven days at 77 ± 3°F and 50 ± 5% Relative                            | ASTM D412 (Die C)       | 800% minimum       |                      |                      | 600% minimum    |

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| Silicone Sealant Type   | Test Method       | Type A  | Type B         | Type C         | Type D  |
|---|-------------------|---|----------------|----------------|---|
| Humidity)   |                   |   |                |                |   |
| Elongation<br>(Cured 21 days at 77 ± 3°F and 50 ± 5% Relative Humidity)   | ASTM D412 (Die C) |   | 800% minimum   | 800% minimum   |   |
| Ozone and Ultraviolet Resistance  | ASTM C793         | No chalking, cracking or bond loss after 5,000 hours, minimum.          |                |                |   |
| Bond to cement mortar briquets (primed if required)<br>(Cured seven days at 77 ± 3°F and 50 ± 5% Relative Humidity) | AASHTO T132       | 50 psi minimum  |                |                |   |
| Bond to cement mortar briquets<br>(Cured 21 days at 77 ± 3°F and 50 ± 5% Relative Humidity)                         | AASHTO T132       |   | 40 psi minimum | 35 psi minimum |   |
| Movement Capability   | ASTM C719         | No adhesive or cohesive failure and adhesion, 10 cycles at -50 to +100% |                |                | No adhesive or cohesive failure and adhesion, 10 cycles at +100/-50 % |

Portland Cement Mortar: Briquets shall be molded and cured 28 days minimum in accordance with AASHTO T132. Saw cut cured briquets in half, clean, and dry at 230°, plus or minus 5°F. Bond the two halves together with a thin section of sealant. After cure of sealant, briquets shall be tested in accordance with AASHTO T132.