

## Evaluation Table

1017 Non-Shrink Grout

1017 Non-Shrink Grout

ADOT Standard Specification: 1017

ADOT Stored Specification: 1017NSGM, 1017ANSG

Responsible Section: Materials Group

Material Property	Specification/ Test Method	Requirement
Non-Shrink Grout: General	1017-1	The nonshrink grout material must be approved for the use or application for which it is intended and shall meet the requirements of ASTM C1107, unless otherwise specified herein.
Non-Shrink Grout: General	1017-1 1017ANSG	Nonsrink grout materials shall be furnished premixed in a dry state including hydraulic cement, fine aggregate, and other ingredients as required for grout performance. Only the addition of mix water shall be required at the site of the work. Aqueous solutions, emulsions or dispersions may be included as components of the packaged materials. The manufacturer may specify that these liquids are to replace some or all the mixing water. If the material contains soluble chlorides or other ingredients in sufficient quantity to cause corrosion to steel reinforcement, the material will not be acceptable.
Non-Shrink Grout: Packaging, Labeling, and Storing	1017-1	The nonshrink grout materials shall be packaged in suitable containers of such design that all of the contents may be readily removed, and shall be moisture resistant to prevent premature hydration of the hydraulic cement in the grout mixture.
Non-Shrink Grout: Packaging, Labeling, and Storing	1017-1	The containers and labeling shall meet the applicable U.S. Department of Transportation Material Shipping Regulations, and the containers shall be of a material, or lined with a material, of such character as to resist any action or breakdown by the components.
Non-Shrink Grout: Packaging, Labeling, and Storing	1017-1	Each package or container shall be clearly labeled with the product name, type and identification code, manufacturer's name, date of manufacture, batch or lot number, and such warnings or precautions concerning the contents as may be required by State or Federal Laws and Regulations.

<b>Material Property</b>	<b>Specification/ Test Method</b>	<b>Requirement</b>
Material Requirements	1017NSGM 1017-4	Nonshrink grout materials shall conform to the requirements of ASTM C1107. The compressive strength shall be determined in accordance with the requirements of ASTM C109.
Slant shear bond strength, min	1017NSGM 1017-4 ASTM C882	1,000 psi at 7 days 1,500 psi at 28 days
Vicat time of set	1017NSGM 1017-4 AASHTO T 131	The final set time shall be a maximum of 8 hours
Compressive strength, min, MPa (psi)*	1017NSGM 1017-4 ASTM C1107 ASTM C109	1 day: 7.0 (1,000) (info only - not required) 3 days: 17.0 (2,500) 7 days: 24.0 (3,500) 28 days: 34.0 (5,000)
Early Height Change, max % at time of final setting*	1017NSGM 1017-4 ASTM C1107 ASTM C827	4%
Height Change of moist cured hardened grout, %*	1017NSGM 1017-4 ASTM C1107 ASTM C1090 ASTM C157	1 day: 0.0% to +0.3% 3 days: 0.0% to +0.3% 14 days: 0.0% to +0.3% 28 days: 0.0% to +0.3%