

EXPECTED IMPLEMENTATION JANUARY 2020

413 SEALING CRACKS AND CONCRETE STRUCTURE SURFACES. (REV 6-12-19) (FA 8-13-19) (1-20)

SUBARTICLE 413-3.2.1 is deleted and the following substituted:

413-3.2.1 Properties: Use a methacrylate material that meets the following physical and performance requirements:

Viscosity (Brookfield RVT)	14-20 cps at 50 rpm
Density (ASTM D1481)	8.5 - 9.0 lb/gl at 77° F
Flash Point (ASTM D93)	> 200°F (Pensky Martens CC)
Odor	Low
Bulk Cure Speed	3 Hours @ 73°F (max.)
Surface Cure	8 Hours @ 73°F (max.)
Gel Time ⁽¹⁾	60 minutes (max.) @ 73.4 ± 1.8°F
Tack Free Time	4-6 Hours (max.) (at 72°F and 50% Relative Humidity)
Compressive Strength (AASHTO T106)	6,500 psi (min)
Tensile Strength (ASTM C307)	1,300 psi (min)
Shear Bond Adhesion (ASTM C882)	600 psi (min)
Elongation ⁽²⁾ (ASTM D638)	10% to 30%
Wax Content	0

1. Use a test method capable of measuring the gel time to the nearest 0.5 minute.
2. Do not use methacrylate with elongation less than 20% for concrete decks supported by steel girders.

The monomer shall have a shelf life of no less than 12 months and shall be no more than 8 months old at the time of application. Provide each container shipped to the job site with the following information on a manufacturer's label: manufacturer's name, product name, lot or batch number, date of production, and drum serial number. Identify the catalysts by their generic classification and provide the date of manufacture.