

**ITEM 557.25 16 M - CRACK SEALING USING HIGH MOLECULAR WEIGHT
METHACRYLATE - LINEAR CRACKS**

DESCRIPTION

This work shall consist of furnishing and installing Crack Sealing Using High Molecular Weight Methacrylate in accordance with the contract documents and as directed by the Engineer.

MATERIALS

The high molecular weight methacrylate (HMWM) resin shall be low viscosity and non-fuming,. Acceptance is based on the manufacturer certifying that it conforms to the following, and the contractor forwarding the certification to the DCES:

Viscosity	Less than 25 cps when measured according to ASTM D2849
Density	Greater than 1.00 kilograms per liter at 25° C.
Flash Point	Greater than 93° C.
Vapor Pressure	Less than 1.0 mm Hg C@ 25° C. (ASTM D 323)
TG (DSC)	Greater than 58° C (ASTM D3418)
Gel Time	Greater than 40 minutes for a 100 gram mass
Percent Solids	Greater than 90 % by weight
Bond Strength	Greater than 10.5 MPa (ASTM C882)

Sand The sand shall be commercial quality dry blast sand. 95% of the sand shall pass the 2.36 mm sieve, and 95% shall be retained on the 0.6 mm sieve.

The container shall include the following information: The name of the manufacturer, the brand name of the product, the date of manufacture.

CONSTRUCTION DETAILS

Abrasive blast clean the area to be treated, removing all contaminants from the surface. Clean all surfaces and cracks using compressed air which is free of oil and moisture.

Do not apply sealers if rain is expected within 12 hours of completion. Apply sealers to clean, dry surfaces when the surface temperature is at least 10° C, and if near 10° C, rising. The sealer shall be mixed and applied according to the manufacturer's instructions and do not mix more than 19 liters at a time. Pour sealer into the cracks.

After the resin has been applied, at least 20 minutes shall elapse before applying the sand. The sand shall be broadcast at a rate of approximately one kilogram per square meter, completely covering the sealer.

The sealer must be tack-free before traffic is permitted to resume.

METHOD OF MEASUREMENT

This work will be measured as the number of linear meters of Crack Sealing Using High Molecular Weight Methacrylate satisfactorily furnished and installed.

BASIS OF PAYMENT

The unit price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.