

Rubberized Cold-Pour Crack Fillers

Application Note

During its service life, asphalt pavement develops cracks due to settling, movement, and oxidation. Crack fillers, based on asphalt, do quite an effective job in sealing the cracks and keeping water from penetrating and eventually causing freeze-thaw damage to the pavement.

To be effective, crack fillers must have an optimum balance between their cohesive and adhesive strengths, which can be achieved only through judicious selection of reinforcing fibers and mineral extenders in the formulation.

The two grades of fibers recommended for use in crack fillers are Interfibe FT and Interfibe FTP, which are fine-length cellulose fibers. Both grades impart exceptional bridging and rheological properties to crack filler formulations.

Significant Issue:

As an effective non-hazardous alternative for asbestos fibers, Interfibe FT or Interfibe FTP provides the formulator the most cost-effective method for accomplishing the optimum application and performance characteristics in crack fillers.

Customer Objectives:

1. Have balanced rheological flow
2. Dry thoroughly and uniformly during the curing process
3. Have proper balance between tensile strength and adhesion to the substrate (i.e. should stay adhered without splitting in the middle of the bead during the service life)

interfibeTM

*For further information, call
your local distributor or
Interfibe Corporation.*

Phone: (800) 262-3771

Fax: (216) 248-2132

Rubberized Cold-Pour Crack Filler

Application Note

Interfibe Solution:

Interfibe FT and Interfibe FTP are the recommended grades for crack filler formulations. They provide the desired:

- Body and flow
- Uniform and thorough cure of the sealant bead
- Tensile strength and adhesive qualities

Interfibe FTP is recommended for low-shear mixing. This product is coated with a surfactant to increase the dispersion rate.

Interfibe FT is recommended for high-shear mixing. The two grades are structurally similar. The recommended level is 20-25 lbs. per 100 gals. of the crack filler batch.

SUGGESTED FORMULATION

CRACK FILLER

Raw Materials	Pounds	Gallons
Asphalt Emulsion (SS-1-H, 90 Pen.)	682.50	75.00
Ball Clay, Pioneer	75.00	3.40
Silica Flour, 270 Mesh	25.00	1.13
Tamol 731-25	2.50	0.27
Interfibe FT or FTP	23.00	1.70
Colloid 691, Defoamer	5.00	0.67
Preservative (non-mercurial)	0.50	0.03
Water	99.96	12.00
Latex, PVA, or SBR type	<u>50.00</u>	<u>5.50</u>
TOTALS	963.46	99.70

CONSTANTS

Weight, lbs./gal.	9.66
Solids, % Weight	56.60
Solids, % Volume	51.40
Viscosity, KU @ 77 +/- 2 degrees F	100-105 KU
pH	8.0-8.5

NOTES: Viscosity adjustments can be made by using 1.5% gel of Natrosol 250 HR or 28% pregel of Minugel AR. Refer to product brochures on these products for further details.

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