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## CR-90 Crack Filler

### DESCRIPTION

CR-90 crack filler is an economical, single-component, hot-applied sealant for use in sealing cracks and joints in Portland cement concrete and asphalt pavements. It is composed of a blend of asphalt, granulated tire rubber, virgin polymers, and inert fillers.

### USES

CR-90 is primarily designed for the sealing of cracks in asphaltic pavements. The product can be used in concrete joints as well.

### FEATURES/BENEFITS

- Economical.
- Single-component.

### PACKAGING

50 Lb. Cartons  
Carton contains two 25 lb. blocks in poly liners.

### COVERAGE

Cracks or joints 1/2" wide x 1/2" deep require approximately 12.73 lb./100 lineal feet.

### SPECIFICATIONS

- ASTM D 5078-90

### TECHNICAL DATA

Test	Typical Results	Spec Limits ASTM D 5078-90
Penetration, 200g, 60 sec. 39.2 ± 0.2F, dmm	30	15 Min.
Penetration, dmm (ASTM D 3407)	42	70 Max.
Resilience, % (ASTM D 3407)	50	30 Min.
Flow, cm (ASTM D 3407)	0.1	
Ductility, cm (ASTM D 113)	33	
Softening Point, ° F (ASTM D 36)	205	150 Min.
Tensile Adhesion, % (ASTM D 3583)	500+	
Asphalt Compatibility (ASTM D 3407)	Pass	
Bitumen Content, % (ASTM D 4)	60+	
Flexibility @ 30° F	Pass	
Wt./Gal., Lb.	9.8	
Viscosity, CPS @ 380° F (ASTM D 3236)	5000	
Recommended Pouring Temperature	380° F	
Maximum Safe Heating Temperature	400° F	
VOC Content	0 g/L	

Typical results should not be used as specification limits.

### APPLICATION

**Melting ...** CR-90 must be heated in an oil-jacketed melter-applicator equipped with a pump and wand. The melter should also have an agitator and separate temperature thermometers for the oil bath and heating vat. Material may be added as sealant is drawn off. Small amounts of material remaining in the kettle may be reheated.

*CONTINUED ON REVERSE SIDE...*

**Surface and Joint Preparation ...** The joints and cracks to be sealed must be clean and dry. Dust, dirt, and laitance should be removed immediately preceding the sealing operation. CERA-ROD™ heat-resistant backer rod from W. R. MEADOWS may be installed in the joint opening to control depth and sealant usage.

**New Concrete Pavement Sealing ...** Typical joint configuration should be 3/8" - 1.5" wide with a 1/2"-3/4" depth for an approximate 1:1 - 2:1 width-to-depth ratio. Designated joint width and depth is determined by the appropriate highway or pavement authority. CERA-ROD™ heat-resistant backer rod from W. R. MEADOWS may be installed in the joint opening to control depth and sealant usage.

**Asphalt Pavement and Maintenance Sealing ...** For ideal sealing with maximum effectiveness, it is suggested that cracks or joints be routed out to provide a sealant reservoir 1/2" to a maximum 1 1/2" wide with a minimum depth being 1/2". An approximate 1:1 - 2:1 width-to-depth ratio should be achieved. To control and maintain the suggested joint depth and sealant usage, CERA-ROD heat-resistant backer rod may be installed in the joint opening.

**Maintenance Sealing ...** Old joint sealing material must be routed out of the joint to a depth of 1 - 1 1/2". For joints 1" wide, the suggested depth is 1/2" minimum.

**Sealant Application ...** Before sealant application, procedures under Surface and Joint Preparation section should be followed.

This material is quite thick at application temperatures. The sealant should be applied into the crack/joint, slightly overfilling. Once applied, a follow-up should be done with a soft rubber, U-shaped squeegee to form a wipe zone of approximately 3 - 4" wide along the crack/joint and flush with the highway or pavement surface.

#### **PRECAUTIONS**

Service life at recommended temperatures is approximately 12 - 15 hours. Application life may be extended by adding fresh material as sealant is applied and the quantity in the kettle decreases. CR-90 can be reheated once within the prescribed safe heating temperature limits. Repeated reheating may result in material degradation or gelling in the melter. If this occurs, remove the sealant immediately from the kettle and discard.

#### **HEALTH AND SAFETY**

Direct contact with heated product should be avoided. The use of safety glasses, chemical-resistant gloves, and protective clothing is recommended. Breathing of fumes/vapors should also be avoided. Use of NIOSH-approved vapor/mist respirator is recommended. Refer to Safety Data Sheet for complete health and safety information.

#### **LEED INFORMATION**

May help contribute to LEED credits:

- IEQ Credit 4.1: Low-Emitting Materials – Adhesives and Sealants
- MR Credit 2: Construction Waste Management
- MR Credit 5: Regional Materials

**For most current data sheet, further LEED information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).**



#### **LIMITED WARRANTY**

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

#### **Disclaimer**

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.