



CSI Code: 02760

No. 231

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(Supersedes June 2002)

## DIRECT FIRE (PLS) Hot-Applied Parking Lot Sealant

### DESCRIPTION

DIRECT FIRE (PLS) is formulated specifically for melting and heating in direct fire kettles. It is a single-component, hot-applied, self-leveling sealant to be used for sealing joints and cracks in Portland cement or asphalt concrete pavements. PLS is easily melted and applied, and will form a flexible, resilient, non-tracking seal suitable for use on both highways and parking lots.

### TECHNICAL DATA

| Test                                     | Typical Result | Recommended Specification |
|--|----------------|---------------------------|
| Penetration, 77° F                       | 50             | 15-75                     |
| Resilience, %:                           | 55%            | 40% (min.)                |
| Softening point, °F                      | 210° F         | 200° F (min.)             |
| Flexibility, 90° bend, 1" mandrel @ 0 °F | Pass           | Pass                      |
| Viscosity @ 400° F                       | 500 cps        |                           |
| Weight/gallon                            | 8.8 lbs./gal.  |                           |

**Maximum Safe Heating Temperature:** 450° F

**Recommended Pouring Temperature:** 400° F

### PACKAGING

50 lb. carton containing two (2) 25-pound blocks, individually wrapped in poly bag liners.

### APPLICATION

**Melting**... Material can be melted in either a direct fire or oil jacketed kettle. Kettles should be equipped with an agitator and properly functioning temperature gauges. The polymers contained in PLS can withstand temperatures up to 450°F.

After melting, the material should be agitated mechanically. Material may be added as the sealant is drawn off. The product is capable of being reheated several times and will not gel when overheated or heated for extended periods.

CONTINUED ON REVERSE SIDE...

**Surface Preparation...** The joints and cracks to be sealed must be clean and dry. Dust, dirt and laitance should be removed prior to application. Proper routing should be slightly larger than the existing crack/joint to ensure proper adhesion to sidewalls.

**Concrete or 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" (12.7mm) wide with a minimum depth of 1/2" (12.7mm). This provides for a 1:1 width-to-depth ratio. For joints 1" (25.4mm) wide, the suggested depth is 1/2" (12.7mm) minimum. To control and maintain the suggested joint depth and sealant usage, CERA-ROD™ Heat-Resistant Backer Rod from W. R. MEADOWS may be installed in the joint opening.

**Sealant application...** Material can be applied by pressure applicator or pour pot. Material should be applied between 350°F and 450°F. The recommended application temperature is 400°F. The sealant should be

applied into the crack/joint, slightly overfilling. For optimum performance, a follow-up should be done with a soft rubber, U-shaped squeegee to form a wipe zone of approximately 3-4 inches (76.2-101.9mm) wide along the crack/joint and flush with the highway or pavement surface. The crack-filler should be tack free prior to coating with a blacktop sealer.

### **PRECAUTIONS**

PLS can be reheated several times. The material will not gel when overheated or heated for extended periods. Temperatures above 400°F for extended periods (over 6 hours) will begin to soften the material. If heated above 450°F, the material will begin to degrade and lose its flexibility.

### **HEALTH HAZARDS**

Avoid direct contact with heated material, as it may cause severe burns. Avoid inhalation of product fumes/vapors. If contact with heated material occurs, cool area with water and seek medical attention. Do not attempt to remove congealed solid from skin. Refer to Material Safety Data Sheet for complete health and safety information.

**FOR THE MOST CURRENT PRODUCT INFORMATION, VISIT OUR WEBSITE:**  
[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.