

# DURA-SHELL® 1190S

## Crack and Joint Sealant in Meltable Packaging

**Description:** Dura-Shell 1190S is a hot pour crack and joint sealant packaged in a fully meltable, rugged container. It is designed for use in crack sealant oil jacketed kettles. Dura-Shell crack sealant has a lower penetration at high ambient temperatures, higher softening point, and lower surface tack than traditionally packaged ASTM materials.

**Recommended Uses:** Dura-Shell 1190S is recommended for sealing joints and cracks in portland cement and asphaltic pavements. It is designed to seal expansion and contraction joints, longitudinal and transverse cracks, joints between concrete and asphaltic shoulders, and random cracks.

**Surface Preparation:** Proper surface preparation facilitates adhesion and consequently the maximum service life of the sealant. In order for proper adhesion, the crack/joint must be free of moisture, dust, loose aggregate, and other contaminants. The substrate and air temperatures must be 40° F or above. Sawing, routing, and/or sandblasting are the preferred methods of preparation. Use oil-free compressed air and heat to clean and dry the crack/joint immediately prior to sealing. Cracks/joints should be sized so that the maximum extension and compression do not exceed 50% of the width. Best results are obtained when the cracks/joints are opened at least 1/2 inch wide.

**Melting and Application:** Melt Dura-Shell 1190S using a conventional **oil jacketed kettle** equipped with agitator and temperature control devices for both the material and heat transfer oil. Carefully insert Dura-Shell sealant and outer packaging into the melting equipment while the agitator is turned off. Load material slowly to avoid splash back. After the initial load has reached the recommended pouring temperature, fresh material may be added to the melter as sealant is used. Melt only the material that will be used during that day. Purge material remaining in the melting kettle lines at the end of each sealing operation. The material may be safely reheated as required and can be applied using a pressure feed wand system or a pour pot.

**Note:** The temperature of the heat transfer oil should not exceed 525° F. Do not heat Dura-Shell above the maximum heating temperature and do not maintain it at that temperature for prolonged periods of time. This could cause the material to gel in the equipment or fail in the joints. A significant viscosity increase accompanied by stringiness signals the approach of gelation. If this occurs, immediately remove the material from the melter and dispose of it.

For further details read and follow the Dura-Shell MSDS, Installation Instructions for Oil Jacketed Dura-Shell Products, and P&T Products' Warranty.

### Product Specifications

when tested in accordance with ASTM D 5329, 36, modified 3111, & 4402.

Heating Temperature	410	F Max.
Application Temperature	370-390	F
Heating Time	12	Hours Max.
Penetration	77 F 65	dmm Max.
Flow	140 F 3	mm Max.
Bond	0 F / 50 % Extension 5	Min. Cycles Passed
Softening Point	185	F Min.
Specific Gravity	1.17	Approximately
Asphalt Compatibility	Pass	
Flash Point	400	F Min.
Optimal Climate	Average Temperatures -17 / 37 C	Or 0 / 100 F

- ◆ Flexible to 0° F
- ◆ Economical
- ◆ Excellent Adhesion
- ◆ Rapid Melting
- ◆ Resists Tracking
- ◆ Sets-Up Quickly

### Coverage

Width	Depth	Pounds/100
3/8"	3/8"	7.2
3/8"	1/2"	9.5
1/2"	1/2"	12.7
1/2"	1"	25.4
3/4"	1/2"	19.1
3/4"	3/4"	28.6

### Specifications

ASTM D 1190  
ASTM D 6690 Type I  
AASHTO M 173  
AASHTO M 324 Type 1  
Fed. Spec. SS-S-164  
FAA P 605  
EN 14188N2

### Packaging

Dura-Shell 1190S is packaged in 32 lb. meltable units. Each pallet contains 64 containers or 2,048 pounds of Dura-Shell.

# P&T Products, Inc.

2/2014

472 Industrial Parkway, Sandusky, Ohio 44870  
(419) 621-1966 • Fax (419) 621-1988 • (877) 690-4093 • www.P-TProductsInc.com