



DATA SHEET NO. 7900-111

HI-SPEC®
Hot-Applied, Polymeric Sealant

DESCRIPTION

HI-SPEC Polymeric Hot-Applied Sealant is a premium-quality, single-component joint sealing compound. It is formulated with a carefully balanced blend of 100% virgin polymer, asphalt, plasticizers and inert reinforcing fillers to produce a hot-pour joint sealant with excellent bonding properties, high resiliency, ductility and resistance to degradation from weathering. It will not become brittle at low temperatures; will not flow or migrate from the joint at temperatures up to 60°C (140°F).

USE

HI-SPEC is recommended for large-scale sealing of joints and cracks in Portland cement and asphalt concrete pavements because of its excellent cost efficiency, long sealant life and high return on investment. Typical applications include expansion and contraction joints in concrete highways – both transverse and longitudinal - joints between concrete pavements and asphaltic shoulders and random cracks in both Portland cement and asphalt concrete pavements.

TECHNICAL DATA

Table with 2 columns: PROPERTY and TEST RESULT. Rows include Pour Point (188°C), Prolonged Heating (6 Hours maximum), Penetration (Less than 0.90 cm), Flow (less than 0.30 cm), Bond (Passed @ 100% extension @ -17°C), Resiliency (More than 60%), and Asphalt Concrete Compatibility (Compatible).

FEATURES AND BENEFITS

- Provides an economical hot-pour, single-component sealant for large-scale sealing of Portland Cement and asphalt concrete pavements

- Recognized by public and private sector sealing contractors as the "best available" and "most cost efficient" joint sealant
Produces tough, dependable joint seals with exceptional longevity
Offers excellent cohesive and adhesive qualities
Resists degradation from weathering
Remains ductile and resilient at low temperatures
Will not flow or migrate at temperatures up to 60°C (140°F)

PACKAGING

22.7 kg (50 lb.) container
24.95 k (55 lb.) cartons. Each carton contains two 12.475 kg (27.5 lb.) buns in polypropylene liners

SPECIFICATIONS

ASTM D 3405.
ASTM D 6690, Type I, II and III
AASHTO M 301
U.S. Federal Specification SS-S-1401C
FAA Specification Item P-605
Corps of Engineers CRD-C 530

COVERAGE

1,158 kg/m (72.2 lbs./ft.). A joint 12.7 mm x 12.7 mm (1/2" x 1/2") will require 18.5 kg/100 m (12.6 lbs./100 linear feet).

APPLICATION

Melting: HI-SPEC should be melted in a conventional double-boiler, oil-jacketed melter-applicator equipped with an agitator and separate control thermometers for both the oil bath and melting vat. On start-up of the melting kettle, add small quantities of HI-SPEC with the plastic bag liner to the melter.

Continued over ...

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CONTROL MATERIAL TEMPERATURES AT 188°C (370°F). NEVER EXCEED 199°C (390°F). RECOMMENDED POURING TEMPERATURE IS 188°C (370°F).

Only melt enough material to be poured the same day. Material should be added to the melter as the sealant is withdrawn during the sealing operation.

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.

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 12.7 mm (1/2") wide with a minimum depth of 12.7 mm (1/2"). This provides for a 1:1 width-to-depth ratio. For joints 25.4 mm (1") wide, the suggested depth is 12.7 mm (1/2") 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.

New Concrete Pavement Sealing ... Typical joint configuration should be 9.54 mm (3/8") wide with a 12.7 mm (1/2") depth for an approximate 1:1 width-to-depth ratio. Designated joint width and depth is determined by the appropriate highway or pavement authority. W. R. MEADOWS CERA-ROD Heat-Resistant Backer Rod may be installed in the joint opening to control depth and sealant usage.

Application Method . . . Apply sealant when substrate and air temperatures are 4°C (40°F) or higher. HI-SPEC 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 76.2 – 101.6 mm (3-4") wide along the crack/joint and flush with the highway or pavement surface.

Proper application is the responsibility of the user. Field visits by W. R. MEADOWS' personnel are for the purpose of making technical recommendations only, and are not to supervise or provide quality control on the job-site.

PRECAUTIONS

DO NOT DILUTE. Do not heat to temperatures above 199°C (390°F). Reheating or prolonged (over 6 hours) heating at or above the safe temperature of 199°C (390°F) could cause this material to gel in the application equipment. A rapid increase in viscosity, accompanied with stringiness, signals the approach of gelling. Should this happen, the material must be rapidly pumped from the melting kettle and discarded. Lines should be flushed out clean. Do not dilute with solvent. Read and follow application information and precautions. Refer to Material Safety Data Sheet for complete health and safety information.

FOR BEST THE MOST CURRENT PRODUCT INFORMATION, VISIT OUR WEBSITE AT:

www.wrmeadows.com

SPECIFICATION CLAUSE

Section 32 13 73.16

Hot-Poured Sealant HI-SPEC Hot-Poured Polymeric Sealant, conforming to ASTM D 3405.

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