MasterFormat: 32 13 76.16

OCTOBER 2022
(Supersedes December 2008)

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; it will not flow or migrate from the joint at temperatures up to 140º F (60º C).

USES

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

FEATURES/BENEFITS

- Provides an economical hot-pour, single-component sealant for large-scale sealing of Portland cement concrete 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 140º F (60º C).

PACKAGING

55 lb. (24.95 kg) Cartons. Each carton contains two 27.5 lb. (12.475 kg) buns in polypropylene liners.

COVERAGE

72.2 lb./ft. (1158 kg/m). A joint 1/2" x 1/2" (12.7 mm x 12.7 mm) will require 12.6 lb./100 linear feet (18.5 kg/100 m).

SPECIFICATIONS

- ASTM D3405
- ASTM D6690 Type I, II, III
- AASHTO M 301
- Federal Specification SS-S-1401C
- FAA Specification Item P-605
- Corps of Engineers CRD-C 530

APPLICATION

Melting... HI-SPEC should be melted in an oil-jacketed melter-applicator equipped with an agitator and separate temperature thermometers for oil bath and melting vat. Sealing may be done at air temperatures of 40º F (4º C) and higher.

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.
NOTE: Application of sealant into frozen or wet pavement will result in loss of bond and premature failure of the sealant.

New Concrete Pavement Sealing... Typical joint configuration should be 3/8" (9.54 mm) wide with a 1/2" (12.7 mm) depth for an approximate 1:1 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" (12.7 mm) wide with a minimum depth of 1/2" (12.7 mm). This provides for a 1:1 width-to-depth ratio. For joints 1" (25.4 mm) wide, the suggested depth is 1/2" (12.7 mm) minimum. To control and maintain the suggested joint depth and sealant usage, CERA-ROD heat-resistant backer rod may be installed in the joint opening.

CONTINUED ON THE REVERSE SIDE...

W. R. MEADOWS, INC.
P.O. Box 338 • HAMPSHIRE, IL 60140-0338
Phone: 847/214-2100 • Fax: 847/683-4544
1-800-342-5976
www.wrmeadows.com • info@wrmeadows.com

Application Method... 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 3" - 4" (76.2 - 101.6 mm) 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. HI-SPEC hot-pour joint sealant can be reheated once within the prescribed safe heating temperature limits. Repeated reheating may result in material degradation or gelling in the melter. When the application life has been exceeded, HI-SPEC will thicken, become stringy, and may gel. If this occurs, remove the sealant immediately from the kettle and discard.

Read and follow application information and use in accordance with the health and safety information shown on the label. Refer to Safety Data Sheet for complete health and safety information.

For most current data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

W. R. MEADOWS®
Prevent.
Protect.
Preserve.

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.