



CHEM-CRETE® ASP FLEX 4

Hot-Applied, Single Component,
Crack And Joint Sealant

PRODUCT DESCRIPTION

CHEM-CRETE® ASP FLEX 4 (ASP FLEX 4) 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.

FIELDS OF APPLICATION

ASP FLEX 4 is primarily designed for the sealing of cracks in asphaltic pavements. The product can be used in concrete joints as well.

PRODUCT FEATURES

- Cures quickly.
- Surface can be opened to traffic in under 30 minutes.
- Low viscosity.
- Easy handling.
- Smooth flush with highway or pavement surface.

PACKAGING

Product	Packaging
CHEM-CRETE ASP FLEX 4	50 lb. (22.68 KG) CARTON

TECHNICAL DATA

Property @ 77°F (25°C)	Value	Spec Limits	Test Method
Penetration, 200g, 60 sec., @ 39.2±0.2°F, dmm	30	min. 15	
Penetration, dmm	42	max. 70	ASTM D5329
Resilience, %	50	min. 30	ASTM D5329
Flow, cm	0.1		ASTM D5329
Ductility, cm	33		ASTM D 113
Softening Point	205°F (96°C)	min. 150°F (65.6°C)	ASTM D36
Tensile Adhesion, %	>500		ASTM D5329
Asphalt Compatibility	Pass		ASTM D5329
Bitumen Content, %	>60		ASTM D4
Viscosity @ 380°F (183°C), CPS	8000		ASTM D3236
Densit (lb./Gal)	9.8		ASTM D1475
Flexibility @ 30°F ((-1.1°C)	Pass		
Recommended pouring temperature	380°F (193°C)		
Recommended safe heating temperature	400°F (204°C)		
VOC Content, g/L	0		

Product Performance: ASP FLEX 4 is tested according to the following test standards:

- ASTM D5078-90
- TxDOT Rubber Asphalt Crack Sealer, Class B

APPLICATION DATA

Melting: ASP FLEX 4 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.

Coverage: Cacks or joints 1/2" (12.7 mm) wide x 1/2" (12.7 mm) deep require approximately 12.73 lb./100 lineal feet (5.8 kg/ 30.4 lineal m).

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. A heat-resistant backer rod 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" (9.5 - 38.1 mm) wide with a 1/2"- 3/4" (12.7 - 19.1 mm) 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. A heat-resistant backer rod 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) to a maximum 1.5" (38.1 mm) wide with a minimum depth being 1/2" (12.7 mm). An approximate 1:1 - 2:1 width-to-depth ratio should be achieved. To control and maintain the suggested joint depth and sealant usage, a 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 - 1.5" (25.4 - 38.1 mm). For joints 1" (25.4 mm) wide, the suggested depth is 1/2" (12.7 mm) minimum.

Sealant Application: Before sealant application, procedures under Surface and Joint Preparation section should be followed. Material is low in viscosity and easy to handle at application temperature. 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" (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. ASP FLEX 4 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.

SAFETY PRECAUTIONS

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.

TECHNICAL ASSISTANCE

Contact International Chem-Crete for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. International Chem-Crete cannot, under any

circumstances, make any guarantee of results or assume any obligation or liability in connection with the use of this information.

As International Chem-Crete has no control over product usage, it is recommended that the product be tested to determine suitability for a specific application and/or that 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. Any liability is limited to the replacement of material, if proven faulty. AM290424-1

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