

Crack / Joint Thermo-Sealant

1. PRODUCT NAME

Thermoflex™

2. MANUFACTURER

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- **Direct Fire Formula:** Engineered to withstand higher localized temperature extremes.
- **No Tracking:** A tough and pliable formula for parking lots and driveways.
- **Sets Firm & Fast:** You can seal in 15 minutes or less.
- **No Bleed Through:** Ideal for crackfilling under sealcoating, slurry seals and overlays.
- **Resilient:** Formulated to perform under the expansion and contraction conditions of moderate and cold climates.
- **Proven Performance:** Meets and exceeds the standards of 6690 Type 1 or AASHTO M324 Type 1, and FAA Spec P-605.

3. PRODUCT DESCRIPTION

Thermoflex is a premium, single component, hot applied, asphalt/rubber joint and crack sealant. Furnished as a solid, it is an elastomeric sealant which is compatible with and bonds aggressively to clean and dry concrete or asphalt pavements. It is designed to be effective in a wide range of climates. It is a true direct fire product capable of being reheated.

Packaging:

Available in 30 lbs cardboard boxes. One skid contains 70 boxes or 2100 lbs per skid.

Color:

Thermoflex is black.

Basic Uses:

Thermoflex is specially formulated for sealing cracks in asphalt and concrete.

Composition:

As shipped, Thermoflex, is composed of performance graded asphalt, virgin and recycled tire rubber, select petroleum derived oils, and premium additives.

Limitations:

Do not overheat material. Do not apply to wet or dirty cracks. Not recommended for cracks over 1" wide. Do not store in direct sunlight or where temperature exceeds 120°F.

4. INSTALLATION

Preparatory Work:

Crack or joint must be properly prepared prior to installation of Thermoflex by means of routing and/or the use of a hot compressed air jet to remove all incompressibles and assure the sidewalls of crack are clean and dry.

Methods:

Thermoflex should be heated in a vessel designed for heating hot pour crack sealants. Some means of agitation and monitoring of temperature are recommended. The range of safe heating temperature for the product is between 325 - 400°F. Overheating Thermoflex beyond this recommended range can degrade the material and create a fire hazard. Thermoflex is suitable for use in a direct fire melter or an oil-jacketed double boiler. It is also an excellent product for use through pumping type kettles.

Mix Design:

Blocks of Thermoflex are formulated as a single component system. Do not add to or mix with any other material.

Application:

Install heated sealant directly into cracks/joints not to exceed a 4" wide band. Thickness should be controlled to not more than 1/8" above

pavement surface. Finished sealed cracks and joints will be uniformly level. Refill to achieve a flush to 1/8" concave surface appearance. One pound of Thermoflex will fill the following lineal feet:

Width	Depth			
	1/4"	1/2"	3/4"	1"
1/4"	32	16	12	8
1/2"	16	8	5.5	4.5
3/4"	12	5.5	4.5	3
1"	8	4.5	3	2

Precautions:

Extreme care must be taken with hot applied sealants. A long sleeved shirt, long pants, gloves and face protection must be worn. Severe burn hazard. Keep out of reach of children. Consult specific Neyra material safety data sheet before use.

5. MAINTENANCE

Remove from equipment and tools with heat. Clean hands with waterless hand cleaner.

6. TECHNICAL DATA

Applicable Standards:

Thermoflex meets the following performance standards: FAA Specification P-605 of AC150/5370-10 Standards, D6690 Type 1, and AASHTO M324 Type 1 (formerly

AASHTO M173)

Environmental Considerations:

Thermoflex is considered non-hazardous when tested according to the EPA's TCLP (Toxicity Characteristic Leaching Procedure).

Performance Requirements:

Refer to chart.

7. TECHNICAL SERVICE

Material safety data sheets, product and application recommendations, as well as assistance with special

situations and field service are available upon request.

8. WARRANTY

The above specifications on product usage are believed to be true and accurate. Neyra Industries, Inc. guarantees that all materials manufactured comply with quality standards as described in the product data sheets. Because the application, handling, weather, workmanship and equipment are beyond the control of this manufacturer, only the quality of

the products as shipped is guaranteed. In no case will the liability of Neyra Industries, Inc. exceed the purchase price of the shipped materials.

9. ADDITIONAL INFORMATION

Neyra Industries, Inc. manufactures a full line of asphalt pavement maintenance and recreational surface products as well as application equipment sold and distributed nationally at our plants and through distributors and contractors. To find the supplier most convenient to you, please contact us.

PERFORMANCE REQUIREMENTS

<i>Test Name</i>	<i>Specification Limits</i>	<i>Typical Results</i>	<i>Method</i>
Cone Penetration @ 77°F (25°C)	X < 90 [0.1mm]	15-25	ASTM D5329
Flow @ 140°F (60°C)	X < 5.0mm	0-3mm	ASTM D5329
Resilience, %	X > 40%	50-60%	ASTM D5339
Bond, non-immersed	D6690 - Type 1	Pass	ASTM D5339
Asphalt Compatibility	Pass	Pass	ASTM D5339
Softening Point (Glycerin)	X > 185°F (85°C)	190-212°F (88-100°C)	ASTM D36
Viscosity @ 400F	1,500-10,000cp	2,000-5,000cp	Neyra Industries, Adaptation of D3236

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