

HI-TECH Systems

"HT-PE60"

EXTERIOR JOINT FILLER

Product Description:

The HT-PE60 is a technologically advanced, self leveling, 100% solids, two component, 1:1 ratio, Polyurea Elastomer exterior joint filler. Designed for exterior concrete with medium to high thermal cycling. HT-PE60 cures rapidly and consistently in applications ranging from -20°F to 130°F. Product is tack free in 3 minutes. Applications can be reopened to traffic in 1 hour.

Applications:

HT-PE60 is designed specifically for filling exterior control joints, new construction joints, and exterior random cracks on horizontal concrete surfaces to help protect from pneumatic-tired vehicles and prevent penetration of water and incompressibles into the joints. Highly flexible, allowing normal joint and slab movement as designed, yet strong enough to protect the vertical edges of concrete from spalling under light loading. Exposure to ultraviolet light will cause slight discoloration, however the physical properties are unaffected. It is recommended to broadcast sand over the material while curing to help minimize discoloration.

Typical Uses:

- ✓ Freeways
- ✓ Airport Runways
- ✓ Taxiways
- ✓ Refueling & Maintenance Areas
- ✓ Bridge Decks
- ✓ Elevated Parking Structures
- ✓ Sidewalks

Advantages:

- ✓ 100% Solids, Contains No VOC's
- ✓ Flexible, 420-435% Elongation
- ✓ Return Project to Service in 60 Minutes
- ✓ Cures From -20°F to 130°F
- ✓ Odorless, No Toxic Vapors
- ✓ Resistant to Petrochemicals & Jet Fuels
- ✓ Remains Flexible, Even in Cold Temperatures

Physical Properties:

Color	A+B	Clear
Viscosity (mixed)		Self Leveling
Mix Ratio (by volume)		1:1
Pot Life 100 grms at 77°F		1 min
Tack Free (thin film) @ 77°F		3 min
Initial Cure		15 mins
Final Cure		60 mins
% of Elongation	ASTM D-412	420 min
Tensile Strength, psi	ASTM D-412	620 min
Shore "A" Hardness	ASTM D-2240	60-62 A
Tear Strength, pli, Die C	ASTM D-624	135 min

Concrete Application Recommendations:

Surface must be clean, sound, and dry. Remove dust, grease, curing compounds, waxes, foreign particles and disintegrated materials. **BULK MIXING** For bulk mixing, use a one to one ratio metered pump. Only component "B" side needs to be stirred before being loaded into pump. Do not allow material to reside in static mixing head or nozzle for more than 45 seconds or nozzle blockage may result.

Available in:

22 oz. Cartridges
56 oz. Cartridges
10 gal. Units
110 gal. Units

Shelf Life:

1 year in original unopened container.

Storage Conditions:

Recommended storage temperature is between 75°F to 85°F. Do not store below 55°F or above 85°F.

Consistency:

Pourable, self-leveling liquid.

Pot Life:

Approx. 1-2 min. (100 gram mass)

Appearance:

Clear.

Cartridge Coverage Rate:

Width	¼"	½"	¾"	1"	1-1/4"	1-1/2"
¼"	52.9					
½"	26.5	13.2				
¾"	17.6	8.8	5.9			
1"	13.2	6.6	4.4	3.3		
1 ¼"	10.6	5.3	3.5	2.6	2.1	
1 ½"	8.8	4.4	2.9	2.2	1.8	1.5
1 ¾"	7.6	3.8	2.5	1.9	1.5	1.2
2"	6.6	3.3	2.2	1.6	1.3	1.1
2 ½"	5.3	2.6	1.8	1.3	1.1	.87
3"	4.4	2.2	1.5	1.1	.87	.73

Chemical Resistance:

Test Procedure; ASTM D-1308 @72°F

R=Recommend

RC=Recommend Conditional =some swelling or discoloration

N=Not Recommend

1=Some discoloration only

<u>Chemical</u>	<u>Result</u>
Acetic Acid 10 %	R
Acetone	RC
Battery Acid (Sulfuric Acid)	RC
Brake fluid	R
Chlorine (2,000 ppm in water)	R
Citric Acid	R
Gasoline	R
Hydraulic Oil	R-1
Methanol (5%) Gasoline	RC
Motor Oil	R-1
Toluene	RC
Vinegar	R
Water	R
Xylene	R

Safety and Handling:

MSDS will be mailed immediately upon receipt of a purchase order or upon request. All personnel should read and understand product Material Safety Data Sheets provided. Long sleeved overall or disposable overalls, rubber gloves, splash shields, rubber or leather boots should be worn. Do not use ear high heat or open flame. Do not take internally. Keep out of the reach of children.

Limitations:

- ✓ Do not thin ... solvents will prevent proper cure.
- ✓ Not for sealing cracks under hydrostatic pressure.
- ✓ Material is a vapor barrier after cure.
- ✓ Minimum age of concrete must be 28 days, depending on curing and drying conditions prior to applications.

Clean Up:

Cured product may be disposed of without restrictions. Excess liquid 'A' and 'B' material should be mixed together and allowed to cure, then disposed of in the normal manner. Cured materials may be stripped or peeled from plastic tools and containers. It is recommended that metal tools be cleaned within one hour of use by cutting or peeling cured material from tool.

First Aid:

Remove any contaminated clothing. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician immediately. For respiratory problems, remove person to fresh air. For skin contact, remove epoxy immediately with a dry cloth or paper towel. Wash area of contact thoroughly with soap and water. Solvents should not be used because they carry the irritant into the skin. Wash contaminated clothing prior to re-use. Cured products are innocuous.

Warranty:

HI-TECH warrants its products to be free of manufacturing defects will meet HI-TECH's current published physical properties when applied in accordance with HI-TECH's directions and tested in accordance with ASTM and HI-TECH's standards. There are no other warranties by HI-TECH of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. HI-TECH Corporation shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, including any warranty of merchantability or fitness for a particular purpose or from any other cause whatsoever.