

HI-TECH Systems

HT-PE75 Flexible Control Joint Filler

Product Description:

The HT-PE75 is a technologically advanced, self leveling, non staining, 100% solids, two component, 1:1 ratio, Polyurea Elastomer joint and crack filler. Designed for concrete with low to medium thermal cycling. HT-PE75 cures rapidly and consistently in applications ranging from 30°F to 130°F (Freezer Blend available). Product is tack free in 3 minutes. Applications can be reopened to vehicle or foot traffic in 1 hour.

Applications:

HT-PE75 is designed specifically for industrial floor applications, which receive light vehicle traffic, such as forklifts or soft wheeled carts. To fill interior random cracks, damaged control joints, or new control joints on horizontal concrete. Slightly flexible, allowing small slab movement, yet strong enough to protect the vertical edges of concrete from spalling under moderate loading. Interior and Exterior (exterior applications when little joint or crack movement from thermal cycling will occur.) Exposure to ultraviolet light may cause slight discoloration, however the physical properties are unaffected.

- ✓ Grocery Stores
- ✓ Department Stores
- ✓ Industrial Facilities
- ✓ Warehouse Floors
- ✓ Manufacturing Facilities
- ✓ Bottling and Canning Facilities
- ✓ Airports
- ✓ Food Processing Facilities

Advantages:

- ✓ 100% Solids, Contains No VOC's
- ✓ Can be Polished without Smearing
- ✓ Meets USDA & FDA Requirements
- ✓ Meets USGBC LEED® Criteria – IEQ4.1
- ✓ Return Project to Service in 60 Minutes
- ✓ Cures From 30°F to 130°F
- ✓ Odorless, No Toxic Vapors
- ✓ Resistant to Petrochemicals
- ✓ Remains Flexible, Even in Cold Temperatures

Physical Properties:

Color A+B		Concrete Grey
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 min
Final Cure		60 mins
% of Elongation	ASTM D-412	290 mins
Tensile Strength, psi	ASTM D-412	740 min
Shore "A" Hardness	ASTM D-2240	75-77 A
Tear Strength, pli, Die C	ASTM D-624	160 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

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:

Concrete Grey, Custom Color Matching Available.

Joint Coverage per Gallon:

Consider approximately 15% for waste - uneven joint depth and width, overflow of material, nozzle waste, etc...

Depth ↓	Width →	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
	1/8"	1232	821	616	411	308	205	154
1/4"	616	411	308	205	154	103	77	77
1/2"	308	205	154	103	77	51	39	39
3/4"	205	137	103	68	51	24	26	26
1"	154	103	77	51	39	26	19	19
1-1/2"	103	68	51	34	26	19	13	13
2"	77	51	39	26	19	13	10	10
2-1/2"	62	41	31	21	15	10	7	7
3"	51	34	26	17	13	8	6	6
4"	39	26	19	13	10	7	5	5

Cartridge coverage: 1 gallon = 128 oz. Multiply gallons by 128 oz., divide by cartridge size. 22 oz. cartridge example: 10 gals. x 128 oz. = 1280 oz. ÷ 22 oz. = 58 cartridges.

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.

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

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.

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.

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.