

HI-TECH Systems

"HT AR-SPRAY 55"

MODIFIED POLYUREA PROTECTIVE COATING

Product Description:

HT AR-SPRAY 55 is a technologically advanced, 100% solids, two component, 1:1 ratio, fast set, liquid applied, modified polyurea liner system for concrete, metal, fiberglass and wood surfaces.

Features:

- ✓ Low Pressure Application
- ✓ Quick Drying
- ✓ Seamless
- ✓ Tough & Elastomeric
- ✓ Chemical Resistant
- ✓ Low Temperature Flexibility
- ✓ Abrasion & Impact Resistant
- ✓ High Build

Typical Uses:

- ✓ Industrial Floorings
- ✓ Walkways
- ✓ Waterproof Decking
- ✓ Secondary Containment Lining with or without Geo Textile
- ✓ Encapsulation of Concrete Vaults, Fiberglass & Polystyrene Foam
- ✓ Coating of Safety Posts
- ✓ Mold Castings
- ✓ Boat Linings
- ✓ Truck Bed Liners
- ✓ Cargo Liners
- ✓ Utility Vehicles
- ✓ Horse Trailers

Coverage:

Theoretical coverage per gallon is 1600 sq. ft. @ 1 mil, or 160 sq. ft. @ 10 mil thickness. HT AR-SPRAY 55 may be applied at any rate to achieve desired thickness.

Packaging:

10 Gal. Units: 5 gallons A, 5 gallons B

Color:

Concrete grey, neutral, black, safety yellow. Custom colors are available upon request.

Technical Data:

Viscosity @ 80°F (27°C), Brookfield:	
Side A	500 +/- 50 cps
Side B	900 +/- 50 cps
Mix Ratio (by volume)	1:1
Pot Life	10-14 seconds
Tack Free (@150 mils. thickness)	40-60 seconds
Recoat Time	6-12 hours
Density (Side A & B combined)	9.45 lbs/gal
Flash Point	>200°F
Elongation, ASTM D-412	175 +/- 50%
Tensile, ASTM D-412	3,000 +/- 300 psi
Hardness, ASTM D-2240	60-62 Shore D
Tear, ASTM D-624	450-475 pli
Service Temperature	-20°F to 200°F

Surface Preparation:

Coating performance and adhesion are directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants.

Concrete: Remove all contaminants such as oil, grease, dirt, form oil residue, wax or any other chemical product prior to proceeding with surface preparation. The surface should be free of voids, pot holes or bug holes, loose or weak concrete and the necessary surface profile must be achieved as listed below to ensure proper adhesion and good surface appearance. Abrasive blast using brush blast technique or better to achieve 2-3 mil anchor profile. Vacuum to remove dust, etc., prior to application of primer. Use fiberglass (C-Veil Glass) or a geotextile cloth to bridge cracks over the primed surface. Primer is always recommended to take care of voids, pot holes or bug holes, etc...

Truck Beds: Sanding and scuffing of the original paint finish is required to obtain a permanent bond of the spray-on liner to the pick-up truck bed. After the vehicle is masked with paper and the surface has been thoroughly cleaned, sand the surface using 40 grit sanding discs on an auto body disc arbor. In areas which cannot be accessed by power tools, surface preparation can be completed by hand using 80 – 100 grit sandpaper or a coarse scuffing pad such as Scotchbrite. Take care that all edges at tape lines are well scuffed and sanded. After sanding and scuffing, the surface must be clean and dust free.

Mixing:

HT AR-SPRAY 55 may not be diluted under any circumstances. Thoroughly mix side B material with a jiffy mixer until a homogenous mixture and color is obtained. Do not allow air to be incorporated into the product. Side A Isocyanate requires no mixing.

Application:

Precondition both the A and B sides to between 75-80° before application. HT-AR-SPRAY 55 should be applied using a plural component, low pressure spray mixing machine like the Hi-Tech SB2005.

Storage:

HT-AR-SPRAY 55 has a shelf life of six months from date of manufacture in original, factory sealed containers. Avoid exposure to freezing temperatures for an extended period of time. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate side A and B regularly.

Limitations:

Due to its aromatic composition, HT-AR-SPRAY 55 will tend to yellow or darken in color after exposure to UV light. HT-AR-SPRAY 55 may be top coated with an aliphatic polyurethane coating for a color-fast glossy finish. Do not open until ready to use. Both containers must be fitted with a desiccant device during use. **Warning:** This product contains isocyanate and curative material.

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.

Safety Precautions:

This product is for industrial use only by professional applicators and is not intended or suitable for use in or around a household or residential property. Keep away from children and household items. This material contains polyisocyanates. Vapors and spray mist are harmful. Improper handling and use may be hazardous. At all times safety precautions must be strictly followed during storage, handling and application. Individuals with chronic respiratory problems or prior respiratory reactions to such materials should not be exposed to vapors.

All personnel entering the application area, including the applicator must wear properly fitted, NIOSH/MSHA approved, fresh air positive pressure air respirators with a full face piece or an air supplied hood.

Keep the material away from sparks, flash and open flames. Containers, even those that have been emptied, may contain dangerous and explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.

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.