

#1070 Polyaspartic

Regular Cure

PRODUCT DESCRIPTION

#1070 Polyaspartic is a new generation two-component aliphatic 85% solids polyaspartic polymer coating. Available as clear or field pigmented, this unique coating systems can be applied over an appropriate Thermal-Chem epoxy primer or used as a finish coat over any of the Thermal-Chem flooring systems. **#1070 Polyaspartic** system has **low odor** and provides exceptional chemical resistance to most chemical exposures and has excellent abrasion resistant properties. **#1070 Polyaspartic** product is an ideal alternative to traditional urethane and epoxy topcoats for any application where **low odor**, faster cure time and greater mil thickness is required.

#1070 Polyaspartic is a completely UV stable, non-chalking formulation which is excellent for exterior or interior applications where the finished surface may be exposed to direct or indirect sunlight. **#1070 Polyaspartic** can also be applied at lower temperatures, down to 25°F, or can be applied in conditions of high humidity without affecting cure. **#1070 Polyaspartic** is a high-build (up to 20 mils per coat), polyaspartic coating system, dependent upon atmospheric moisture or environmental conditions to achieve cure and produce a smooth glass-like finish with exceptional light reflecting qualities. Aluminum oxide or similar aggregate can be incorporated into this coating systems to achieve varying degrees of slip resistance as may be required for the specific application.

The table below assumes the substrate and ambient temperature are equal to the material temperature.

#1070 Polyaspartic can be applied up to 20 mils(wet) in a single coat verses 5 mils(wet) for most conventional urethanes.

Pot Life & Cure Times

#1070 Polyaspartic

At 72°F / 55% Relative Humidity	
Pot Life	30-40 Min.
Working Time	15 Min.
Tack Free	1.5 Hrs.
Recoat	2-12 Hrs.
Foot Traffic	4 Hrs.
Heavy Traffic	25 Hrs.
Full Chemical Resistance	5-7 Days

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	#1070 Polyaspartic
Hardness, Shore D ASTM D2240	65-70
Abrasion Resistance ASTM D1044 Tabor Abrasion CS-17 Wheel 1000 gms. Load 1000 cycles	90-95 mg. loss
Viscosity 76 Degrees F.	300 cps
Freeze Thaw Resistance ASTM C666	300 Cycles Passes

ADVANTAGES

- Mix ratio by volume is 2:1
- LOW ODOR
- Meets VOC requirements

- Superior adhesion to Thermal-Chem primers or base coats
- Rapid cure for quick turn-around time
- Installed by approved applicators
- Excellent resistance to UV exposure
- Excellent light reflective capabilities
- No offensive odors during application
- Field Pigment with **1085 ColorThane**
- Can be applied at temperatures down to 25°F

LIMITATIONS

- Should be applied over an epoxy primer or base coat. It should *not* be applied directly to the concrete substrate.
- Maximum single coat application thickness is 20 mils
- Re-coat must be done within 12 hours of initial application

CAUTION: No solvents should be added to this product.

COLOR and TEXTURES

- Water clear, or ten (10) standard field pigmented colors (Use Thermal-Chem **ColorThane** universal pigment only.)
- Available in a smooth, glass-like finish or various slip-resistant textures

PRODUCT APPLICATION

#1070 Polyaspartic should be applied over an epoxy primer, and can be used in conjunction with Thermal-Chem's **VaporGard Coating System** in applications where hydrostatic or vapor transmissions could be a potential problem; and can be used with any of the Thermal-Chem complimentary and repair products.

Refer to appropriate Thermal-Chem product Installation Guide.

NOTE: **#1070 Polyaspartic** should be applied over **ArmorPrime 100** (100% solids epoxy), **ArmorPrime WB** (water-

based epoxy), or most other Thermal-Chem base coat or top coat systems..

CHEMICAL RESISTANCE

#1070 Polyaspartic has excellent chemical resistance to most chemicals. For specific chemical resistance refer to the Thermal-Chem product chemical resistance charts.

PRODUCT AVAILABILITY

Products are manufactured and available through the Thermal-Chem Corporation, 2120 Roberts Drive, Broadview, IL 60155 U.S.A.

Tel: 800/635-3773 ■ 847/288-9090

Fax: 847/288-9091

E-Mail: sales@thermalchem.com

Web Site: www.thermalchem.com

TECHNICAL/SPECIFICATION SERVICES

Additional Product Data, complete Technical Support and Product Specifications are all available through Thermal-Chem Corporation; or their local representatives.

Every reasonable precaution and effort has been taken in the manufacturer of all Thermal-Chem products to comply with the published product data. Actual product performance may vary slightly due to environmental influences and/or conditions.

PRODUCT HANDLING

Read the Material Safety Data Sheet thoroughly before use.

Warning: For professional use only. Avoid contact of uncured material with skin and eyes. Contact with skin may result in irritation. Wash skin with soap and water. If contact with eyes should occur, flush with water for 15 minutes and seek immediate medical attention.

LIMITED WARRANTY

Thermal-Chem Corporation warrants its product to be of good quality and will, at Thermal-

Chem's sole discretion, replace or refund the original purchase price (if payment was made in accordance with Thermal-Chem's payment and credit terms) of any product proved defective or non-conforming. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. **THE PARTIES AGREE THAT THE REPLACEMENT OR REFUND OF PRODUCT PAYMENT FOR DEFECTIVE PRODUCT OR NON-CONFORMING GOODS IS THE SOLE AND EXCLUSIVE REMEDY.** Therefore, except for such replacement, **THERMAL-CHEM CORP. MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS,** and Thermal-Chem Corporation shall have no other liability with respect thereto, including without limitation, liability for incidental or consequential damages. Any claim regarding product defect must be received in writing within one hundred and ninety (90) days from the date of shipment. No claim will be considered without such written notice or after the specified time interval. The user shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith.