

# ARMORPRIME ULTRA-FAST

## PRODUCT #727

### Two- Component Epoxy Primer

#### PRODUCT DESCRIPTION

A pigmented or straw colored 99.6% solids, two (2) component rapid cure epoxy primer used over concrete substrates to promote adhesion and to help prevent bubbles from occurring which are typically associated with concrete out-gassing. **ArmorPrime Ultra-Fast** has been specifically formulated for use as a prime coat under any of Thermal-Chem's Resurfacers and topcoats. This system can be applied neat in a thin mil coat or as thick as 20 mils.

For best application results, the product should not be left in the bucket. After mixing it should immediately be poured on the floor and spread with a squeegee.

**ArmorPrime Ultra-Fast** has been formulated for interior use, meets VOC and Leed requirements with only 2 grams per liter of VOCs and is USDA approved. For best results against abrasion and chemical resistance, this primer should not be used without a topcoat application.

#### Degrees

75°F  
68°F

#### Recoat Time

2-3 hrs.  
3-4 hrs.

The above table assumes ambient temperature, material and substrate are equal and material is applied at 20 mils in thickness.

#### USES

**727 ArmorPrime Ultra-Fast** may be used as a straw or pigmented rapid cure primer under Thermal-Chem's Resurfacers and Topcoats. It

has excellent adhesion, seals the concrete to help reduce out gassing, and allows floor to be returned to service faster keeping downtime to a minimum.

Typical uses for **ArmorPrime Ultra-Fast** include:

- Reduced out-gassing bubbles, due to porous and heavily abraded substrates.
- As a rapid prime coat where the floor needs to be returned to service quickly.
- As a rapid cure basecoat in our DecoFlake system.
- Increased adhesion capabilities for all **Resurfacers**.

#### TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	ArmorPrime Ultra-Fast 727
Hardness, Shore D ASTM D2240	78-80
Bond Strength ACI 503	>350 100% con. failure
Impact Resistance ASTM D2794	160 in./lbs.

Abrasion Resistance ASTM D1044 Tabor Abrasion CS-17 Wheel 1000 gms. Load 1000 cycles	45-50 mg. loss
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Viscosity 77 Degrees F.	500-700 cps
Viscosity 60 Degrees F.	1300-1600 cps
Compressive Strength	
ASTM D695	7,800
PSI 7 Day Cure	
Aggregate Filled	
Compressive Modulus	
ASTM D695	200,200
Flexural Strength	
ASTM D790	10,360
Modulus	295,800
Tensile Elongation	
ASTM D638	6.5%
Tensile Strength	6,790
Tensile Modulus	324,100
Freeze Thaw Resistance	300 Cycles
ASTM C666	Passes

## ADVANTAGES

- Very good adhesion to various substrates.
- No offensive odors during application.
- USDA approved product.
- Leed compliant.
- Volume mix ratio: 2:1
- Compatible with ColorThane Universal Pigment

## LIMITATIONS

- Limited substrate temperature range during application.
- Requires a protective topcoat.
- Not suitable in areas of harsh chemical attack.
- Must be installed on dry substrates.
- Interior use only.

## COLOR and TEXTURES

- Available in straw and standard colors.
- Typically a smooth, glass-like finish.
- May be field pigmented using Thermal-Chem ColorThane, a universal pigment.

(Various slip-resistant textures typically achieved with topcoat)

## PRODUCT APPLICATION

**ArmorPrime Ultra-Fast** is typically applied as a neat system by squeegee and backrolling. This is a very rapid cure system and has reduced pot-life and working time. Increased temperatures will reduce working time even further. The product should not be left in the bucket, after mixing it should be immediately be applied to the floor

Refer to appropriate Thermal-Chem product Installation Guide.

## PRODUCT AVAILABILITY

Products are manufactured and available through the Thermal-Chem Corporation, 2120 Roberts Drive, Broadview, IL 60131 U.S.A.

Tel: 800/635-3773 ■ 847/288-9090  
 Fax: 847/288-9091  
 E-Mail: [sales@thermalchem.com](mailto:sales@thermalchem.com)  
 Website: [www.thermalchem.com](http://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 replace any product proved defective. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. 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 eighty (180) 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.