

ARMORBOND PRODUCT #731

Pigmented Epoxy Top Coat

PRODUCT DESCRIPTION

ArmorBond, Product 731 is a two component, 100% solids, epoxy polymer top coat system, formulated specifically for interior applications over dry substrates and at application temperatures of not less than 40°F (4.4°C) as a basecoat system. **731 ArmorBond** can also be used as a topcoat system.

This coating system can be used to level and restore deteriorated, irregular, or pitted concrete to a smooth and durable finish in a non-blush formulation. As a topcoat, **731 ArmorBond** provides a smooth, glass-like or textured finish that has excellent abrasion and impact resistance.

731 ArmorBond can be applied as a neat thin mil application by roller, as a thicker neat application with a notched squeegee, or blended with one of the Thermal-Chem aggregates for higher build installation. **731 ArmorBond** meets VOC regulations, and has no offensive odors during installation.

731 ArmorBond is a self-priming system that can be used as either a base coat or topcoat system with excellent adhesion capabilities, will not blush, making single or multiple coat applications possible. Depending on project requirements, a topcoat can be applied, with or without slip-resistant texture, by applying an additional coat of **731 ArmorBond**. For best results when there is a potential for bubbles due to out-gassing or heavily shot-blasted surfaces; **734 ArmorPrime 100 or 1080 ArmorPrime WB** should be applied to the

substrate prior to the application of **731 ArmorBond** to seal the surface.

Degrees	Recoat Time
77°F	6-7 hrs.
60°F	10-11 hrs.

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

USES

Typical uses for **731 ArmorBond** include:

- Industrial flooring
- Warehouse aisle ways
- Clean rooms
- Animal housing facilities
- Areas where medium-duty performance is required

And, wherever the following properties are needed:

- Smooth glossy surface or textured finish
- Seamless installation
- Durable and long lasting surface
- Ease of cleaning

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	ArmorBond 731
Hardness, Shore D ASTM D2240	80-85
Bond Strength ACI 503	>350 100% con. failure
Impact Resistance ASTM D2794	160 in./lbs

Abrasion Resistance	35-44 mg.
ASTM D1044	loss
Tabor Abrasion	
CS-17 Wheel	
1000 gms. Load	
1000 cycles	
Viscosity 77 Degrees F.	600-800 cps
Viscosity 60 Degrees F.	1500-1800 cps
Compressive Strength	
ASTM D695	10,250
PSI 7 Day Cure	
Compressive Modulus	
ASTM D695	263,300
Flexural Strength	
ASTM D790	13,640
Modulus	389,100
Tensile Elongation	
ASTM D638	5.4%
Tensile Strength	8,940
Tensile Modulus	426,480
Freeze Thaw Resistance	300 Cycles
ASTM C666	Passes

ADVANTAGES

- Perfect for self-leveling applications
- Excellent resistance to many common chemicals
- Self-priming product, as a basecoat
- Applied as thin mil or high-build resurfacer
- No offensive odors during installation
- 100% solids and VOC compliant (no solvents)
- Installed by approved applicators

LIMITATIONS

- Excessive scratching and blows from heavy falling objects may show on surface
- Suitable for interior applications only
- Can be applied over dry substrates only
- Single coat applications may be susceptible to out-gassing bubbles
- Limited exposure to harsh chemicals
- Apply at temperatures above 13°C (55°F)
- Direct sunlight exposure may cause slight discoloration

COLOR and TEXTURES

- Available in ten (10) standard colors
- Smooth/glossy finish. Various sizes of aluminum oxide may be added to the top coat and back-rolled to produce fine to coarse textures.

PRODUCT APPLICATION

731 ArmorBond can be installed over the **VaporGard Coating System** in applications where hydrostatic and vapor transmissions are a potential hazard, or can be used with any of the Thermal-Chem Companion or repair products. Depending on project requirements, **731 ArmorBond** can be installed by one of the following methods:

- Neat, thin-mil roller application
- Neat squeegee application
- Blended with fine silica for a high build, notched squeegee application
- As a topcoat with optional oxide for texture, over any Thermal-Chem polymer floor

Refer to appropriate Thermal-Chem product Installation Guide.

CHEMICAL RESISTANCE

Refer to Separate Product Chemical Resistance tables, or for specific product applications, contact your local Thermal-Chem representative.

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

including without limitation, liability for incidental or consequential damages. Any claim regarding product defect must be received in writing within one hundred 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.

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 Corp. 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 Corp. shall have no other liability with respect thereto,