

# ARMORBOND PRODUCT 730

Epoxy Polymer Flooring Systems

## PRODUCT DESCRIPTION

A two (2) component, 100% solids epoxy polymer **Base Coat** system for medium and general use applications where a normal cure formulation can be tolerated. Blended with select aggregates, this system can be trowel applied as an overlay system or applied as a slurry system with optional broadcast aggregate. **730 ArmorBond**, when coated with one of the appropriate topcoats, provides very good impact, abrasion and chemical resistance characteristics.

**730 ArmorBond** is formulated specifically for interior use on dry substrates and in application temperatures at not less than 13°C (55°F); and meets VOC regulations.

**730 ArmorBond** is a self-priming system for slurry applications or can be applied neat as a primer for troweled overlays. This system can be installed with a monolithic cove base to create a seamless and sanitary installation that complies with USDA regulations.

For best application results, pre-condition the material to between 80°F (27°C) and 90°F (32°F) if the substrate temperature is below 70°F (21°C).

**730 ArmorBond** is available in normal cure only.

Degrees	Recoat Time
<b>ArmorBond</b>	
77°F	8-9 hrs.
60°F	14-16 hrs.

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

## USES

Typical uses for the **730 ArmorBond Base Coat System** include:

- Industrial flooring
- Warehouse aisle ways
- Some processing facilities
- Wastewater treatment facilities
- Laboratories
- Commercial kitchens

And, wherever the following flooring properties may be necessary:

- Slip-resistant surface
- Increased ease of maintenance
- Good abrasion resistance
- Durability and sanitary protection

## TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	ArmorBond 730
Hardness, Shore D ASTM D2240	80-85
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	33-35 mg. loss
Viscosity 77 Degrees F.	500-700 cps
Viscosity 60 Degrees F.	1300-1600 cps
Compressive Strength ASTM D695	10,800

PSI 7 Day Cure Aggregate Filled	12,600
Compressive Modulus ASTM D695	277,300
Flexural Strength ASTM D790 Modulus	14,370 416,000
Tensile Elongation ASTM D638	5.0%
Tensile Strength	9,240
Tensile Modulus	440,900
Freeze Thaw Resistance ASTM C666	300 Cycles Passes

## ADVANTAGES

- Good resistance to many common chemicals
- Monolithic installation with integral cove base
- Self-priming product (except troweled applications)
- Provides a highly durable and protective flooring system
- Installed by approved applicators
- No offensive odors during installation
- USDA approved
- Volume mix ratio: 2:1

## LIMITATIONS

- Direct sunlight will cause some discoloration
- Requires a protective top coat
- Must be installed on dry surfaces only
- Only available in normal cure
- Limited substrate temperature range during installation
- Not suitable in areas of harsh chemical use
- Does not contain same pigment load as top coat systems

## COLOR and TEXTURES

- Available in nine (9) standard colors
- Various slip-resistant textures available
- May be field pigmented using Thermal-Chem's **ColorThane** universal pigment.

## PRODUCT APPLICATION

The **ArmorBond Base Coat System** can be applied over the **VaporGuard Coating System** in applications where hydrostatic or vapor transmissions could be a potential hazard; and can be used with any of the Thermal-Chem complimentary and repair products; and can be applied as a:

- Slurry or Slurry/Broadcast System - typically 1/16" thickness or greater
- Troweled Overlay System - typically 3/16" thickness or greater

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 60155 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 the 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.