

ARMORCLAD

PRODUCT 735

Epoxy Polymer Flooring Systems

PRODUCT DESCRIPTION

A two-component, 100% solids epoxy polymer **Base Coat** system with excellent impact, abrasion and chemical resistance for heavy use areas. Formulated for installation over dry or moist substrates and application temperatures at not less than 40°F (4.4°C). **735 ArmorClad** can be applied as a base coat (primer) for a two (2) coat application, applied as a slurry with optional broadcast aggregate or can be trowel applied.

The **735 ArmorClad Base Coat**, when coated with one of the Thermal-Chem Resurfacers, provides a superior system suitable for use in heavy industry, wet areas, and processing facilities; and can be installed monolithic with an integral cove base to form a seamless and sanitary installation which complies with USDA regulations.

735 ArmorClad can be installed in both interior and exterior applications and meets with all VOC guidelines.

ArmorClad is available in normal and fast cure formulations.

Degrees		Recoat
735 ArmorClad - Normal and Rapid Cures		
77°F	Normal Cure	6-7 hrs.
60°F	Normal Cure	10-11 hrs.
77°F	Rapid Cure	4-5 hrs.
60°F	Rapid Cure	7-8 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 **735 ArmorClad Base Coat System** include:

- Heavy industry flooring
- Overlay system for wet use applications
- Various processing facilities
- Commercial kitchens
- Warehouse & cold storage flooring

And, where the following qualities are required:

- Durability and lasting protection
- Increased ease of maintenance
- Resistance to heavy abuse
- Lower application temperatures
- Heavy-duty abrasive surface

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	ArmorClad 735
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	32-33 mg. loss



Viscosity 77 Degrees F.	500-700 cps
Viscosity 60 Degrees F.	1300-1600 cps
Compressive Strength ASTM D695 PSI 7 Day Cure Aggregate Filled	11,400 13,500
Compressive Modulus ASTM D695	292,100
Flexural Strength ASTM D790 Modulus	15,140 431,900
Tensile Elongation ASTM D638	4.8%
Tensile Strength	9,923
Tensile Modulus	473,300
Freeze Thaw Resistance ASTM C666	300 Cycles Passes

ADVANTAGES

- Suitable for interior or exterior applications
- Can be applied over moist or dry substrates
- Installed in temperatures down to 40°F (4.4°C)
- Self-priming product (except trowel applications)
- Excellent abrasion and chemical resistance
- Contains no volatiles, and exceeds VOC regulations
- Can be installed monolithic with integral base cover
- USDA approved product
- Installed by approved applicators
- Volume mix ratio: 2:1

LIMITATIONS

- Requires a top coat
- Direct sunlight exposure will cause some discoloration
- Does not contain the same pigment load as top coat systems

COLOR and TEXTURES

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

PRODUCT APPLICATION

The **735 ArmorClad Base Coat System** can be used with the **VaporGard Coating System** in applications where hydrostatic and vapor transmissions could be a potential hazard; and can be used with any of the Thermal-Chem companion and repair products (refer to catalog).

Depending on the project requirements, **735 ArmorClad** can be installed as a:

- Coating System
- Slurry or Slurry/Broadcast
- Troweled Overlay

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

Website: 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.