

ARMORCLAD

PRODUCT #736

Pigmented Epoxy Top Coat

PRODUCT DESCRIPTION

736 ArmorClad is a 100% solids, polymer **Top Coat** system; used to level and restore deteriorated, irregular, or pitted concrete to a smooth and durable finish. This unique, non-blush self-leveling epoxy system makes it possible to resurface irregular concrete surfaces at temperatures down to 4.4°C (40°F) on dry or moist substrates. Used as a Top Coat over any of the Thermal-Chem Floor Systems, **ArmorClad** provides a smooth glass-like surface or textured finish that has excellent abrasion and impact resistance. Because of its unique self-leveling qualities, **ArmorClad** can be applied neat by roller for thinner applications, or blended with one of the fine Thermal-Chem silicas for thicker high build applications using a notched squeegee or gauge rake. **ArmorClad**, meets VOC regulations, has no offensive odors during installation, and provides excellent resistance to most common chemicals.

ArmorClad is an extremely versatile self-priming system with excellent adhesion capabilities. It can be applied in a single coat or over a Thermal-Chem primer or base coat system where a thicker application is required or a potential for bubbles exist due to out-gassing. **ArmorClad** can be installed in both interior and exterior applications and meets all VOC guidelines.

For best application results 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).

Degrees

77°F
60°F

Recoat Time

6-7 hours
10-11 hours

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

USES

Typical Uses for **ArmorClad** include:

- Factory floors
- Warehouse aisle ways
- Laboratories
- Medical research
- Pharmaceutical
- Clean rooms
- Animal housing
- Meat and poultry processing plants

And, wherever the following properties are needed:

- Smooth glossy or textured surface
- Seamless installation
- Durable and long lasting surface
- Ease of cleaning
- High quality top coat is required

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	ArmorClad 736
Hardness, Shore D ASTM D2240	82-87
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	32-42 mg. loss

1000 cycles	
Viscosity 77 Degrees F.	600-800 cps
Viscosity 60 Degrees F.	1500-1800 cps
Compressive Strength	
ASTM D695	11,500
PSI 7 Day Cure	
Compressive Modulus	
ASTM D695	295,300
Flexural Strength	
ASTM D790	15,300
Modulus	435,800
Tensile Elongation	
ASTM D638	4.8%
Tensile Strength	10,020
Tensile Modulus	477,600
Freeze Thaw Resistance	
ASTM C666	300 Cycles Passes

ADVANTAGES

- Perfect for self-leveling applications
- Excellent resistance to most common chemicals
- Self-priming product
- Applied as thin mil or high build resurfacer
- Can be applied over dry or moist substrates
- No offensive odors during installation
- Installed by approved applicators
- 100% solids and VOC compliant
- Volume mix ratio: 2:1

LIMITATIONS

- Excessive scratching and blows from heavy falling objects may show on surface

- Single coat applications may be susceptible to out-gassing bubbles and may require a second coat or prime coat
- Limited exposure to harsh chemicals
- Direct sunlight exposure may cause some discoloration
- Application temperatures above 4.4° C (40° F)

COLOR AND TEXTURES

- Available in nine (9) standard colors
- Smooth/glossy finish, optional fine aluminum oxide in topcoat can add a mild texture when desired

PRODUCT APPLICATION

The **ArmorClad** can be installed over the **VaporGard Coating System** in applications where hydrostatic and vapor transmissions could be a potential hazard; or can be used with any of the Thermal-Chem Companion or repair products (refer to catalog). Depending on project requirements, the **ArmorClad** 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
- Topcoat with optional aluminum oxide for texture

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

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.

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