

# ACIDGARD PRODUCT #755

## Epoxy Polymer Flooring Systems

### PRODUCT DESCRIPTION

A two (2) component 100% solids, 100% reactive novalac epoxy flooring system, that resist acids in high percent solutions (concentrations) as well as many other compounds, even at elevated temperatures. The AcidGard System is a unique formulation of polymers that is excellent for areas where constant or repeated contact and exposure to a wide variety of chemicals, including significant concentrations of acids and caustics, can be anticipated. **AcidGard Flooring System** has been designed to withstand tough physical punishment and abuse in a highly aggressive environment and for many submersible applications.

**AcidGard** is suitable for interior as well as exterior applications; and can be applied on dry or moist substrates at temperatures down to 5°C (40°F). **AcidGard** produces no offensive odors during installation (unlike many esters and MMA's), and meets VOC regulations.

A self-priming system, **AcidGard** can be installed as a thin mil coating, a slurry with optional broadcast, or as a troweled overlay in varying thickness. Where resistance to harsh chemical exposure is critical, this system can be installed with a cove base or over containment curbing, to create a non-porous and seamless installation. To create a truly impervious and seamless environment, the **WallGard AR Coating System** can be applied to vertical and overhead surfaces; so that floors, walls, and ceiling become a totally integrated system that provides the ultimate protection from harsh chemical exposure.

For lesser chemical exposures, refer to either **VersiGard** or one of Thermal-Chem's topcoat/resurfacer products.

### Degrees

#### AcidGard

77°F

60°F

### Recoat Time

6-7 hrs.

10-12 hrs.

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

### TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	AcidGard 755
Hardness, Shore D ASTM D2240	89-93
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	20-25 mg. loss
Viscosity 77 Degrees F.	1000-2000 cps
Viscosity 60 Degrees F.	2200-4000 cps
Compressive Strength ASTM D695 PSI 7 Day Cure Aggregate Filled	14,500 16,500
Compressive Modulus ASTM D695	372,300
Flexural Strength ASTM D790	19,200

Modulus	548,600
Tensile Elongation	
ASTM D638	1.0%
Tensile Strength	12,600
Tensile Modulus	601,300
Freeze Thaw Resistance	
ASTM C666	300 Cycles Passes

## USES

Typical uses for **AcidGard System**, include:

- Chemical processing, particularly acids
- Acid dip and immersion rooms
- Pulp and paper industry
- Textile mills and processing
- Acid and battery storage areas
- Primary and secondary containment areas
- HAZMAT facilities

And, wherever the following properties may be required:

- Slip-resistance in wet areas
- Superior abrasion and impact resistance
- Improved chemical clean-up
- Protecting against infiltration of the substrate

## ADVANTAGES

- A superior acid resistant surface, even in many submersible applications
- Non-porous and seamless installation
- Installed with integral cove base or over curbing
- Self-priming product (except troweled applications)
- No offensive odor during installation and meets VOC regulations
- Can be applied over dry and moist substrates
- Installation capabilities down to 5°C (40°F)
- Installed by approved applicators
- Can be installed as a coating system

## LIMITATIONS

- Exposure to high concentrations of solvents (Refer to the **SolventGard** product sheet)
- Only available in normal cure
- Should not be installed as a single coat application

## COLOR and TEXTURES

- Available in four (4) standard colors
- Various textures available, depending on installation method and application technique

## PRODUCT APPLICATION

The **AcidGard System** can be installed over the **VaporGard Coating System** in applications where hydrostatic and vapor transmissions could pose a potential hazard; or can be used with any of the Thermal-Chem Companion or repair products (refer to catalog). The **AcidGard Flooring System** is a product for use as both a base coat and top coat; and depending on project requirements, can be installed as a:

- Thin mil coating system (two coats)
- Slurry broadcast
- Troweled overlay

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  
 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.

## **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.