

DecoWear™ PRODUCT #745

Clear Epoxy Base/Mid Coat

PRODUCT DESCRIPTION

745 DecoWear™ is a two (2) component 100% solids water clear polymer specifically formulated to be a base and intermediate coat for the **DecoFlake** and **DecoQuartz** decorative flooring systems. **DecoWear™** is formulated with a cycloaliphatic curing agent and may be used as a clear topcoat where minimal UV discoloration can be tolerated.

745 DecoWear™ may be applied at temperatures down to 13° C (55° F). **745 DecoWear™** is USDA approved, meets VOC guidelines and has no offensive odors during installation.

DecoFlake and **DecoQuartz** are decorative floor systems, combining a 100% solids pigmented or non-pigmented base coat, decorative colored acrylic flakes or colored quartz granules, and a clear epoxy or polyurea protective topcoat. The seamless systems are impervious to most common chemicals, provide durable floor surfaces that require minimum maintenance and are an ideal alternative to vinyl tile or standard solid color epoxy coatings. **DecoFlake** and **DecoQuartz** are excellent for interior and exterior applications (with the appropriate UV color-stable topcoat) or where moderate traffic can be anticipated. Both may be installed with a variety of slip-resistant textures.

DecoFlake can be installed as a random flake (light broadcast) or as a full flake (broadcast to rejection) system.

Degrees

77°F
60°F

Recoat Time

5-7 hrs.
10-13 hrs.

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

Both random flake, full flake and quartz systems may be top coated with a variety of Thermal-Chem clear topcoat materials depending upon specific performance criteria and customer requirements.

Typically random flake systems are coated with **1057 DecoFinish E57**, or **1061 ArmorFinish E-81** urethane and full flake and quartz systems are coated with **748 DecoTop Clear**, **707 DecoTop Clear Plus 3.0** (Thermal-Chem's best epoxy clear coats) or **1062 DecoFinish P81** (polyurea) where UV resistance is critical. Refer to each topcoat product description sheet for further information.

Colored acrylic flakes and colored quartz granules are available in premixed color blends or a wide range of standard colors for unlimited color combinations to suit virtually any color scheme.

USES

Decorative Flooring Systems are excellent for use in various commercial applications as well as in many industrial environments.

- Automobile customer service and repair areas
- Light manufacturing facilities
- Shower and locker room facilities
- Laboratory floors
- Commercial kitchens and food processing
- Warehouse aisles
- Pharmaceutical plants
- Residential garage and basement floors
- Correctional facilities
- Hospitals – both human and animal

And, wherever the following flooring properties are required:

- Slip-resistant surface texture

- Increased ease of maintenance
- Good abrasion resistance
- A durable and sanitary installation
- An inexpensive and decorative surface
- Areas where minimum downtime is required

TYPICAL PHYSICAL PROPERTIES

Physical Characteristics	DecoWear™ 745
Hardness, Shore D ASTM D2240	76-82
Bond Strength ACI 503	>350 100% conc. failure
Impact Resistance ASTM D2794	160 in./lbs.
Abrasion Resistance ASTM D1044 Tabor Abrasion CS-17 Wheel 1000 gms. Load 1000 cycles	38- 42 mg. loss
Viscosity 77° F.	500-700 cps
Viscosity 60° F.	1500-1800 cps
Compressive Strength ASTM D695 PSI 7 Day Cure Aggregate Filled	7,800 psi
Flexural Strength	4500 psi
Tensile Elongation ASTM D638	5.8%
Tensile Strength	8,940
Flammability	Self extinguishing over concrete
Freeze Thaw	300 Cycles

Resistance

ASTM C666

Passes

ADVANTAGES

- Tough enough for foot or vehicular traffic
- USDA approved and VOC compliant
- Improved aesthetic image in any environment
- Camouflages many wear and scuff marks, common to most solid color coating surfaces
- Good resistance to many common chemicals
- Self-priming base coat
- May be factory or field pigmented

LIMITATIONS

- Limited range of application temperatures
- **DecoWear™** minimum substrate application temperature - 55°F
- Not recommended in areas of harsh chemical usage
- **DecoWear™** may discolor if exposed to sunlight or other UV sources
- **DecoWear™** may water spot if exposed to moisture prior to full cure
- Allow to cure 7 days before chemical cleaning

COLOR and TEXTURES

- Unlimited colored quartz and flake combinations
- Ten (10) pigmented tint colors
- Thirty (30) available flake colors
- Quartz granules available in twelve (12) colors
- Various slip-resistant texture options available with clear topcoat

PRODUCT APPLICATION

All decorative flooring systems can be installed over Thermal-Chem's **VaporGard** Product #211 coating where hydrostatic and vapor transmissions could pose a potential hazard and

is compatible with any of the Thermal-Chem companion repair products (refer to catalog).

Refer to the appropriate Thermal-Chem System 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

Website: www.thermalchem.com

Help/Sales: sales@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, at Thermal-Chem's sole discretion, replace or refund the original purchase price (if payment was made in accordance with Thermal-Chem's payment and credit terms) of any product proved defective or non-conforming. Satisfactory results depend not only upon quality products but also upon many factors beyond our control. **THE PARTIES AGREE THAT THE REPLACEMENT OR REFUND OF PRODUCT PAYMENT FOR DEFECTIVE PRODUCT OR NON-CONFORMING GOODS IS THE SOLE AND EXCLUSIVE REMEDY.** 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 ninety (90) 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.