

# DECOESSENCE™ PRODUCT 787

## Metallic Pigment Floor Coating System

### PRODUCT DESCRIPTION

**DecoEssence™** is a decorative seamless flooring system that combines a blend of metallic pigment with a clear polymer matrix to produce a unique three-dimensional look with incredible depth and vibrancy. By incorporating various application techniques, the floor can be finished with many one-of-a-kind architectural finishes and textures where a unique appearance is desired. Finished thickness of the three-coat system is approximately 32 mils.

**DecoEssence™** is a two (2) component 99.6% solids water clear polymer utilizing a specially formulated metallic pigmented material. The seamless coatings are impervious to most common chemicals, provide durable floor surfaces that require minimum maintenance and are an ideal alternative to vinyl tile, standard, solid color epoxy coatings, concrete stains and polishing. **DecoEssence™** is formulated for interior applications only.

**DecoEssence™** should be applied at temperatures no lower than 13<sup>0</sup> C (55<sup>0</sup> F). **DecoEssence™** is USDA approved, meets VOC and Leed requirements with only 2 grams per liter of VOCs and has no offensive odors during installation.

**DecoEssence™** should not be installed alone but rather as a total flooring system which is comprised of a pigmented **ArmorPrime #726**, pigmented **DecoEssence™ #787** and a gloss (**1061, 1057**) or satin (**1065**) or matte (**1064**) urethane wear coat.

<b>DecoEssence™</b>	
<b>Degrees</b>	<b>Recoat Time</b>
77°F	5-7 hrs.
60°F	10-13 hrs.

The above table assumes substrate, ambient and

material temperatures are equal and material is applied at 20 mils in thickness.

### USES

The **DecoEssence™** seamless flooring system offers individual finishes and colors that make it ideal for many commercial environments including:

- High-end retail and commercial
- Museums, galleries and showrooms
- Entertainment arenas
- Residential dwellings
- Office lobbies, exhibit halls
- Healthcare facilities
- High-end retail food stores
- Wherever stained concrete is installed
- Restaurants and food courts
- Institutional facilities
- Hotels
- Countertops and Company Logos

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

<b>Color</b>	13 Standard Colors
<b>Solids</b>	100%
<b>VOC</b>	2 grams per liter/Epoxy; Urethane refer to Data Sheet
<b>Cure Time @72° F</b>	Recoat: 6-8 hrs Foot traffic: >24 hrs
<b>Hardness, Shore D ASTM D 2240</b>	76-82
<b>Elongation ASTM D 638</b>	5.8%
<b>Tensile Strength ASTM D 638</b>	2,500 psi
<b>Compressive Strength ASTM D 695</b>	7,800 psi

<b>Flexural Strength</b> ASTM C 580	4,500 psi
<b>Adhesion</b> ACI 503R	350 psi (100% concrete failure)
<b>Heat Resistance Limits</b>	140° F/60°C (Continuous exposure)
<b>Abrasion Resistance</b> ASTM D 41044, CS-17 wheel, 1000 cycles	38-42 mgs loss
<b>Flammability</b>	Self-extinguishing over concrete

## ADVANTAGES

- Superior surface protection – floor waxing and buffing not required.
- Outperforms vinyl tile, acid base stains and water base dyes.
- Extremely durable and easily maintainable
- Seamless & sanitary
- Chemical and stain resistant
- Excellent adhesion
- Can be installed over new or old concrete, wood or cementitious toppings
- Consistent color dispersion versus stained concrete
- Artisan customizable finish looks
- Superior hiding of substrate imperfections
- 99.6% Solids and VOC and Leed compliant

## LIMITATIONS

- Limited range of application temperatures.
- **DecoEssence™** minimum substrate application temperature - 55°F
- A polyurethane is recommended as a wear coat.
- Not recommended in areas of harsh chemical usage.
- Light color shades of **DecoEssence™** may discolor if exposed to sunlight or other UV sources.
- **DecoEssence™** may water spot if exposed to moisture prior to full cure.
- Allow the top coat to cure 7 days before the use of chemical cleaning.

## COLOR and TEXTURES

- **DecoEssence™** is available in 13 colors
- Various slip-resistant texture options available with clear topcoat

## PRODUCT APPLICATION

All decorative flooring systems can be installed over Thermal-Chem **VaporGard** coating, Product #211, 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 Thermal-Chem DecoEssence Specification and DecoEssence Installation System 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, 2550 Edgington Street, Franklin Park, IL 60131 U.S.A.

Tel: 800/635-3773 ■ 847/288-9090  
 Fax: 847/288-9091  
 Website: [www.thermalchem.com](http://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, 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.