



## **thermal-chem. DECOESSENCE™ – DECORATIVE METALLIC FLOOR COATING**

### **PRODUCT DESCRIPTION**

**DecoEssence™** is a decorative seamless flooring system that combines a blend of 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.

### **ADVANTAGES**

- Excellent adhesion and durable wear surface protection.
- Outperforms vinyl tile, acid base stains and water base dyes
- Provides a more homogeneous colored appearance vs. stained concrete.
- Low maintenance (floor waxing and buffing not required).
- Seamless and sanitary flooring.
- Chemical and stain resistant system.
- Can be installed over new or old concrete, wood or cementitious toppings
- Artisan customizable finish looks
- Superior hiding of substrate imperfections
- 100% Solids and VOC Compliant
- Can be used with Maxxon Commercial topping and wear top

### **TYPICAL USES**

The **DecoEssence™** seamless flooring system offers individual finishes and colors that makes it ideal for many commercial environments.

- 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

### **LIMITATIONS**

- Concrete slab on grade or below-grade requires vapor/moisture testing. If a vapor drive in excess of 3 lbs. per 1,000 sq. ft. per 24

hours (ASTM F 1869) is present, an epoxy vapor barrier coating must be installed below the **DecoEssence™** system for proper performance.

- Do not install system if the ambient temperature and/or concrete substrate temperature is below 55° F or above 90° F.
- Product cure times are significantly affected by temperatures and can have a major affect on working time.
- Allow final top coat to cure for a minimum of 24 hours prior to exposure to water and 7 days before the use of cleaning chemicals.

### **PHYSICAL PROPERTIES**

See individual Product Data Sheets.

### **COLOR**

**DecoEssence™** is available in 11 colors.

### **OPTIONS**

- Expansion and control joints must be addressed to allow for movement. Prior to installation, the different methods should be discussed with the appropriate method per environment selected.
- Urethane finish wear coat in either gloss or semi-gloss. Finish coat will provide improved wear, chemical, and UV resistance.
- Install decorative scores into substrate to define borders or patterns
- Install additional colors to create patterns in the floor
- Deteriorated concrete should be repaired to achieve a smooth level surface
- Install field sample for approval of final finish appearance
- Textured surfaces can be achieved with an additional wear coat
  - Not recommended in areas of harsh chemical usage
  - Light colors of **DecoEssence™** may discolor if exposed to sunlight or other UV sources
  - **DecoEssence™** may water spot if exposed to moisture prior to full cure

## **SURFACE PREPARATION**

Proper surface preparation is essential for a successful system installation. New concrete should be cured a minimum of 28 days and tested for moisture. The substrate must be dry, clean, and sound. All surface contaminants such as dirt, oil, grease, paint, fats, wax, and concrete laitance must be removed.

## **GENERAL SUBSTRATES**

Thermal-Chem systems can be applied to a variety of substrates if the surface is properly prepared. Surfaces other than concrete such as wood, vinyl tile, or quarry tile, require different degrees and types of prep methods. Thermal-Chem should be consulted prior to start of project.

## **CONCRETE SUBSTRATE**

To insure proper system adhesion, concrete surfaces can be prepared by shot blasting, scarifying, or diamond grinding.

For best results, substrate should be flat and smooth.

## **SYSTEM INSTALLATION**

### **Primer**

Premix the A component of the primer, then pour both A and B components together into a clean mixing container and mix for 2 minutes. Spread the material with a flat squeegee and back roll with a 3/8" nap roller. Application rate: 8-10 mils (200-160 sq. ft. per gallon).

### **DecoEssence™ Coat**

Premix the pre-pigmented DecoEssence component A. Mix slowly, do not draw a vortex or whip air into the coating. Pour the B component into the A component container and mix for 2 to 3 minutes. Apply with notch squeegee at the rate of 18 to 20 mils and back roll with a 1/4" mohair roller. Spread the coating as evenly as possible. Let the material set and level out for about 20 to 25 minutes prior to finishing techniques.

The combination of Thermal-Chem's polymer system and the metallic pigment will produce a variety of unique looks depending upon the finishing techniques. Using a leaf blower and a circular motion will create deep movement with a textured look. Applying a fine spray of solvent (denatured alcohol, xylene) will disperse the pigment creating a mottled look similar to stained

concrete. Spike rollers or loop rollers create different textures. The contractor should experiment with various techniques before installing an end user job.

### **Top Coat**

After the coating has fully cured, apply a wear coat of either Thermal-Chem's **DecoFinish 1057 Gloss**, **DecoFinish 1061 Gloss**, **DecoFinish 1064 Matte**, or the **DecoFinish 1065 Satin** at the rate of 300 to 400 sq. ft. per gallon.

## **SYSTEM MAINTENANCE**

Thermal-Chem **DecoEssence™** Flooring Systems are no-wax floors and when properly maintained will retain their gloss for several years.

### **GENERAL CARE**

Refrain from dragging heavy loads or equipment across the floor surface. Always wipe up chemical spills to avoid possible staining.

### **CLEANING SCHEDULE**

Floors should be swept and dust-mopped on a daily basis. Heavy soil load environments may require wet mopping or auto scrubbing. Dirt, grease, oil, spills, and other surface contaminants represent a safety issue and should be addressed by a daily and weekly floor-cleaning schedule. Facility soil loads, safety and appearance requirements all contribute to the frequency and type of cleaning routine required. Consult Thermal-Chem's Care and Maintenance Guide for polymer floor systems.

## **DISCLAIMER**

The data on this sheet represent typical values obtained by the methods indicated. Since application variables are a major factor in product performance, this information should serve only as a general guide. Such information and recommendations are subject to change and pertain to the products(s) offered at the time of publication. Published technical data is subject to change without notice.

## PRODUCT AND INSTALLATION DATA

	<b>Material</b>	<b>Mix Ratio</b>	<b>Theoretical Coverage</b>	<b>Packaging</b>
<b>Primer</b>	Armor Prime 726 Pigmented	2:1	160 sq. ft. / gal (10 mils)	5 gal units
<b>Body Coat</b>	DecoEssence™ 787	2:1	80 sq. ft. /gal (20 mils)	5 gal cont.
<b>Top Coat</b>	DecoFinish 1057 Gloss, DecoFinish 1061 Gloss, DecoFinish 1064 Matte, DecoFinish 1065 Satin	1:3	300-350 sq. ft./ gal	1 1/3 gal unit

## PRODUCT AVAILABILITY

Products are manufactured and available through the Thermal-Chem Corporation, 2120 Roberts Drive Street, Broadview, IL 60155 U.S.A.

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

## **WARRANTY**

See Product Data Sheet