



DECOCOLOR - FLOORING SYSTEM

PRODUCT DESCRIPTION

DecoColor is a solid color seamless resinous flooring system that combines a Urethane wear coat for excellent abrasion, and staining resistance. Finished thickness of the three (3) coat system is approximately **25 to 30 mils or approximately 1/32"**

ADVANTAGES

- Superior surface protection
- Outperforms vinyl tile
- Extremely durable
- Seamless and sanitary flooring
- Chemical resistant
- Customizable surface profile
- Can be installed over new or old concrete, wood or cementitious topping
- 100% solids and VOC compliant

TYPICAL USES

The **DecoColor** seamless flooring system with the option of a customized textured surface for slip resistance makes it ideal for many commercial and industrial environments.

- Animal clinics & Doggie daycare
- Pharmaceuticals
- Locker and restrooms
- Healthcare facilities
- Research labs
- Correctional institutions
- Indoor pool decks
- Hospitals
- Residential garage and basement floors
- Industrial flooring
- Warehouse aisle ways

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 **DecoColor Flooring 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 epoxy to cure for 24 hours prior to exposure to water and 7 days before the use of cleaning chemicals.

PHYSICAL PROPERTIES

Color	To be selected
Solids	Epoxy 100 % Urethane 57 to 81 %
VOC	Compliant
Cure Rate @72° F	Dry to touch: 4-8 hrs Foot traffic: 24 hrs
Hardness, Shore D ASTM D 2240	80-85
Elongation ASTM D 638	5.8%
Compressive Strength ASTM D 638	7,800 psi
Adhesion ACI 503R	350 psi (100% concrete failure)
Coefficient of Friction ASTM F 1679 (dry)	0.90 @ medium texture
Heat Resistance Limits	140° F/60°C (continuous exposure)
Abrasion Resistance ASTM D 4060, CS-17 wheel, 1000 cycles	34 mgs loss
Flammability	Self-extinguishing over concrete

ASTM D = Resin only

COLOR

DecoColor is available in 12 color patterns. Custom colors are available upon request. Refer to Thermal-Chem **DecoColor** Color Chart and color matching policy.

OPTIONS

- Various texture degrees ranging from smooth, medium, to aggressive can be achieved. The contractor should submit a texture sample and receive sign off approval by customer before installation.



- A cove base can be installed to provide an integral seal between the floor and wall surfaces.
- Expansion and control joints must be treated to allow for movement. Prior to installation, the different methods should be discussed with the appropriate method per environment selected.
- Deteriorated concrete should be repaired to achieve a smooth level surface.
- Not recommended for areas of harsh chemical usage.
- The epoxy topcoat may discolor if exposed to sunlight or other UV sources.
- **DecoColor** may water spot if exposed to moisture prior to full cure.

SURFACE PREPARATION

Proper surface preparation is essential for proper system installation. New concrete should be cured a minimum of 28 days. The substrate must be dry, clean, and sound. All surface contaminants such as dirt, oil, grease, paint, fats, wax, and concrete laitance should 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, ceramic or quarry tile, concrete block, 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. Refer to Installation Guide # 2001-IG for proper floor prep recommendations.

SYSTEM INSTALLATION

BASE COAT BROADCAST

Premix the A component of the basecoat, then pour both A and B components together into a clean mixing container and mix for 2 minutes. Immediately pour the entire mixed material onto the substrate in a ribbon pattern and spread with a flat squeegee using overlapping two-direction squeegee passes. For edges and hard to reach areas use a paintbrush. Cross roll with a ¼ inch mohair roller at a spread rate of 120 to 140 square feet per gallon. Overlap roller passes to remove squeegee line and roller marks.

Allow to cure.

TOP COAT

Premix the resin as described above. Immediately pour the entire mixed material onto the substrate in a ribbon pattern and spread with a flat squeegee using overlapping two-direction squeegee passes as described above at the rate of rate of **100 to 120 square feet per gallon**. Do not allow material to puddle.

WEAR COAT

To substantially enhance UV stability and stain resistance install either DecoFinish E-57 Product # 1057 or UltraFinish E-81 Product # 1061 (Both are aliphatic urethanes and 1061 has the added advantage of being a no odor urethane).

Apply the urethane by “dipping and rolling” spreading at the rate of 300 sq. ft. per gallon minimum. Cross roll with a ¼ inch nap roller to remove roller marks and to insure an even spread of material. Do not apply the urethane in high humidity environments. Always insure air movement across the urethane.

Care should be exercised when mixing, Urethanes typically contain solvents and sparks from mixers can cause a fire under some conditions.

Allow the urethane to cure for 24 hours before allowing traffic. Do not allow aggressive chemical cleaning or chemical contact for 72 hours.

FINISHED TEXTURE

Texture is typically achieved through a combination of aluminum oxide sizes, and the thickness and number of topcoats.

One of Thermal-Chem’s aluminum oxide sizes (fine, medium, coarse or extra coarse) may be use to enhance an aggressive texture. The use of approximately 3 pounds per 100 sq. feet may be applied into the Top Coat and back rolled while still wet.

CLEANUP

Clean up mixing and application equipment immediately after use. Use xylene and be careful to observe all fire and health precautions when handling or storing solvents.

Safe and proper disposal of excess materials shall be done in accordance with applicable federal, state, and local codes.



SYSTEM MAINTENANCE

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

GENERAL CARE

Avoid spinning forklift tires or quick stops and starts
Loose or protruding nails should be removed from pallets or crates.
Refrain from dragging heavy loads or equipment across the floor surface.
Always wipe up chemical spills to avoid staining

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.

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, appearance, all contribute to frequency and what type of cleaning is required. Consult Thermal-Chem's Care and Maintenance Guide for polymer floor systems.

SYSTEM APPLICATION TABLE

	Material	Mix Ratio	Theoretical Coverage	Packaging
Primer (optional)	Armor Prime 734	2:1	180 sq. ft. / gal	3 or 15 gal units
Base Coat	ArmorClad #735	2:1	120 to 140 sq. ft. / gal	3 or 15 gal units
Top Coat	ArmorBond Resurfacer #731	2:1	100 to 120 sq. ft. / gal	3 or 15 gal units
Wear Coat	DecoFinish E-57 #1057 Or	2:1	300 sq. ft. / gal	3 or 15 gal units
	ArmorFinish E-81 #1061	1:3	300 sq. ft. / gal	3 1/3 gal units