

Chip Flake Systems

When decorative appeal and dependable protection are both priorities, chip flake systems provide the perfect balance of performance and style!

UDT's Chip Flake systems are engineered to create seamless, durable flooring surfaces with enhanced visual texture and long-term reliability. By incorporating decorative vinyl flakes into high-performance resin systems, these floors deliver attractive finishes suitable for a wide variety of commercial, institutional, residential, and light industrial environments.

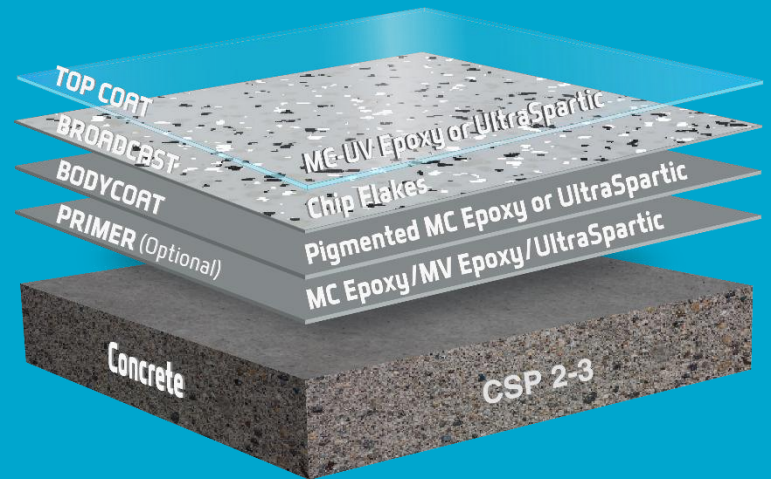
Available in a broad range of blends, colors, and build options, flake systems can be tailored from subtle accent finishes to full broadcast decorative surfaces with enhanced durability and texture.

Benefits

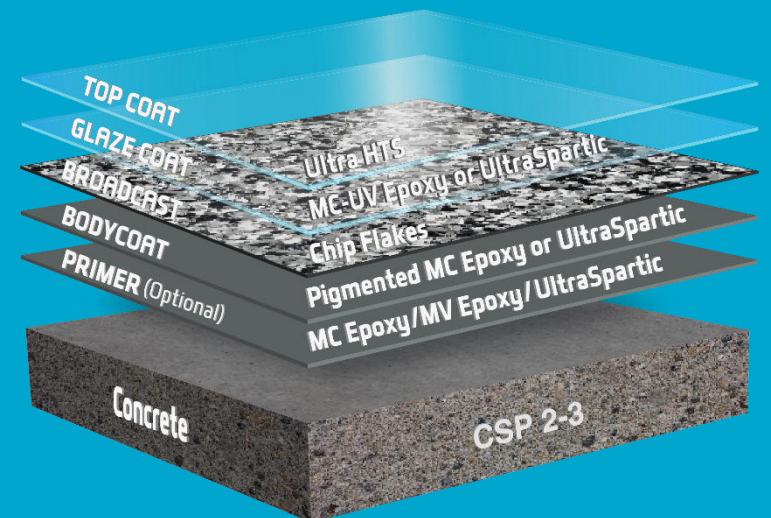
- Decorative Seamless Finish
- Wide Variety of Color Blends
- Excellent Abrasion Resistance
- Easy-to-Clean Surface
- Slip-Resistant Texture Options
- Low VOCs
- Fast Return-to-Service
- UV-Stable Finish Options

Uses

- Garages & Showrooms
- Commercial Kitchens
- Retail & Hospitality Spaces
- Locker Rooms & Restrooms
- Veterinary Clinics
- Healthcare Facilities
- Schools & Universities
- Offices & Break Rooms
- Storage & Utility Areas
- ... and more!



UDT Sparse Flake
light visual texture
with minimal material use



Ultra Full Flake
total texture coverage
with maximum durability

Decorative Flexibility

UDT chip flake systems offer exceptional design versatility, allowing facilities to achieve anything from subtle visual texture to bold, fully decorative finishes. With numerous flake blends, color combinations, and broadcast densities available, these systems can complement a wide range of architectural and operational requirements while maintaining a clean, professional appearance.

Built for Everyday Durability

Beyond aesthetics, chip flake systems are designed to withstand the demands of active environments. Their seamless resinous construction helps resist abrasion, impacts, stains, and routine chemical exposure while supporting long-term floor performance in both commercial and residential settings.



Consistent & Reliable Installation

UDT Chip Flake systems are engineered for predictable application and dependable results. Whether applying a sparse flake accent finish or a full broadcast system, contractors can achieve uniform coverage, attractive texture, and consistent appearance across projects of all sizes. Fast-curing system options also help reduce downtime and accelerate return to service.

Easy Maintenance, Long-Term Value

Because the finished surface is seamless and non-porous, chip flake floors simplify routine cleaning and help minimize dirt and moisture intrusion. Their durable protective layers help preserve both appearance and performance over time, reducing maintenance demands and extending service life.

Options for Many Environments

From decorative residential garages to demanding commercial facilities, UDT Chip Flake systems are available in multiple build configurations and topcoat options to meet specific performance goals. Systems may be configured for enhanced chemical resistance, improved abrasion performance, increased UV stability, or accelerated installation schedules depending on project requirements.

Attractive Finishes Without Sacrifice

Chip flake systems are designed to bridge the gap between aesthetics and functionality. The decorative flake media adds depth, texture, and visual character while reinforcing the flooring system beneath the surface. Whether used to create a subtle accent floor or a bold full-broadcast appearance, these systems deliver professional results that stand up to daily use.

Engineered for the Real World

From vehicle traffic and rolling loads to spills, moisture, and routine cleaning, UDT Chip Flake systems are built to perform in active environments. Their resilient resinous structure helps maintain adhesion, appearance, and surface integrity even under demanding day-to-day conditions, making them a dependable choice for facilities where durability matters.

Typical Physical Properties

Nominal Total Thickness approximate	30-60 mils (1/16")
Color	Pre-blended standard or custom colors available
Shore D Hardness ASTM D2240	72 - 78
Pencil Hardness ASTM D3363	6H with Ultra HTS topcoat
Compressive Strength ASTM D695	11,000 psi
Tensile Strength ASTM C307	8,500 psi
Abrasion Resistance Taber CS-17, 1000 cycles ASTM D4060	17 mg loss with Ultra HTS topcoat
Pull-Off Adhesion to Concrete ASTM D7234	Concrete failure (>450 psi)

Designed With Contractors in Mind

Every component of the system is formulated to support efficient installation and reliable results in the field. From consistent resin flow and flake distribution to dependable cure characteristics, UDT Chip Flake systems help contractors achieve uniform finishes with reduced rework and predictable performance. With multiple system configurations available, installers can adapt the build to meet both project requirements and scheduling demands.

Surface Preparation

Concrete must be structurally sound, cured for at least 30 days, and free of contaminants including waxes, loose paint, dust, dirt, grime, oils, release agents, curing compounds, and any surface laitance (a layer of weak and non-durable material). Grind to a Concrete Surface Profile (CSP) of 2 to 3 (30-70 metals). All substrates must be properly prepared by trained and experienced contractors or maintenance personnel.

Safety Precautions

Safety Data Sheets (SDS) must be referenced before product use. Ensure the most recent instructions and technical data are used. Current product documents are available here:

<https://ultradt.com/product-documentation/>

Warranty

<https://ultradt.com/warranty/>

Moisture Vapor Emissions Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of any coating system. It is the coating applicator's responsibility to conduct calcium chloride or relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. A moisture test should be performed to determine MVT rate. UDT can supply moisture remediation products and information. Consult your UDT representative for more information. UDT and its representatives or sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

Material Storage

Materials must be stored in a temperature-controlled environment. Refer to product Technical Data Sheets (TDS) for acceptable storage temperatures.

LAYER	PRODUCT	TINT	COVERAGE	APPLICATION
Primer recommended	MC Epoxy	Optional	300-600 ft ² /gallon	Flat flexible squeegee, then back-roll with 3/8" nap woven roller.
Base Coat	MC Epoxy	Yes	160-250 ft ² /gallon	Notched squeegee, then back-roll with 3/8" nap woven roller.
Broadcast	Chip Flakes	N/A	varies	Sparse Flake: throw handfuls upward (avoids clumping). Full Flake: broadcast to rejection.
Grout Coat	UltraSpartic	No	100-160 ft ² /gallon	Flat squeegee and back-roll with 3/8" nap woven roller.
Topcoat optional	Ultra HTS	No	450 ft ² /gallon	3/8" nap woven roller.

Alternative product options available. Contact UDT for details.

Cleanup

All equipment used in mixing and application should be cleaned immediately after use. Any chemicals must be handled and stored following all health and fire safety precautions.

Maintenance

System life may be extended with periodic inspection of installed material and spot repair as needed. Contact Ultra Durable Technologies for specific information.