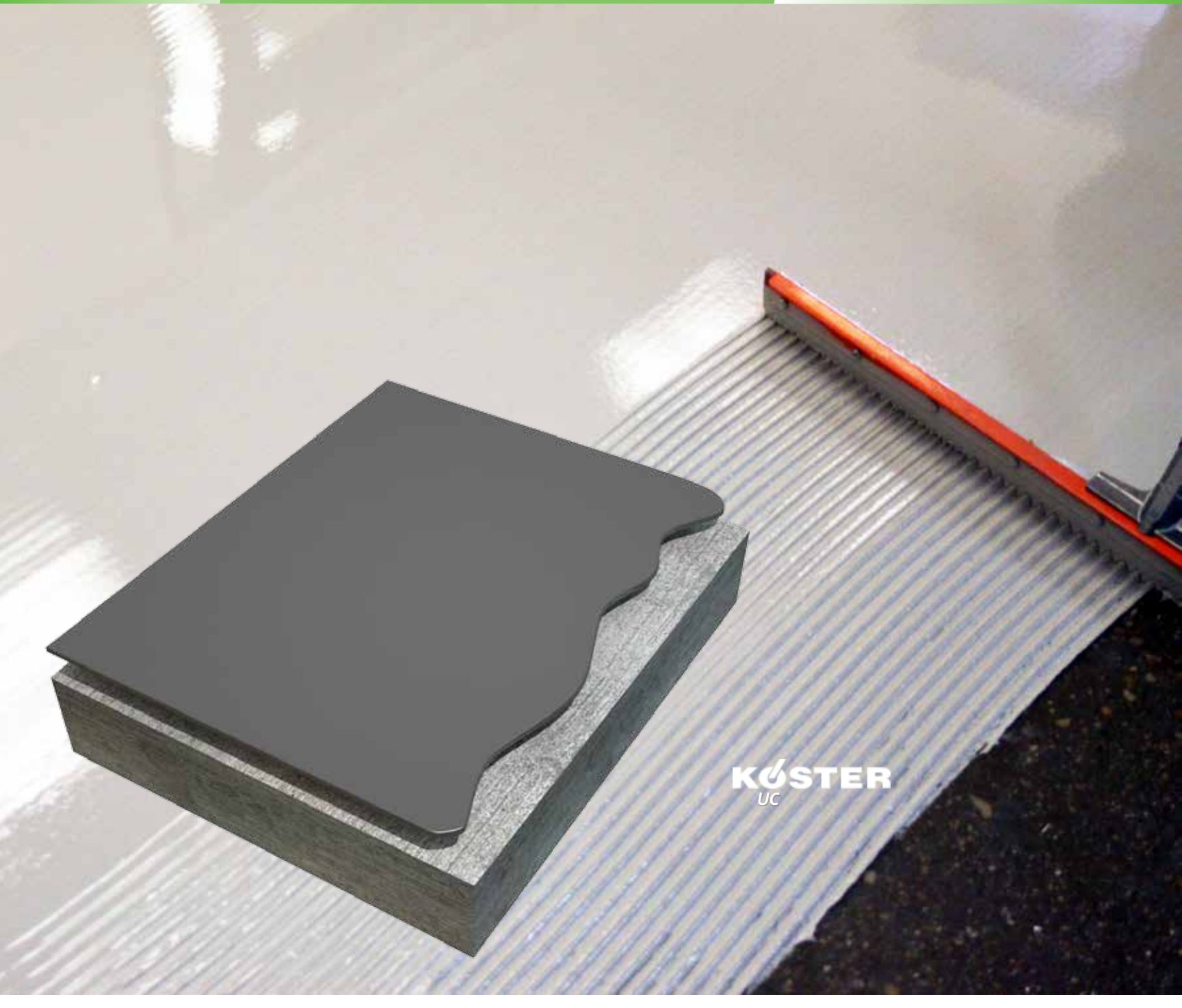


URETHANE CEMENT FLOOR SYSTEMS



What is Urethane Cement?

Urethane cement is a combination of a polymer binder (urethane) and fillers (cement and aggregate). Urethane Cement is also referred to as polymer concrete.

Urethane cements can be used in floor coating systems. They can be self-leveling, roller applied, or trowel applied. Urethane cement coating systems can tolerate high moisture, which makes them suitable to be installed directly onto concrete. Urethane cement coatings are

well known for their chemical and temperature resistance. They also provide wear resistant, durable, and seamless floor finishes that are easy to clean.

Urethane cement flooring systems are tailored to the demanding service conditions found in the food and beverage industries, industrial, pharmaceutical, and healthcare environments.



Why KOSTER Urethane Cement Flooring Systems?

EASY AND FAST INSTALLATION:

KOSTER UC coating systems offer ease of installation combined with fast cure times. KOSTER UC coatings can be applied directly to concrete as stand-alone systems without a primer or topcoat. Fields of application: food processing, healthcare, industrial facilities and in areas with high demands for chemical, thermal and mechanical resistance of the floor coating.

PHYSICAL RESISTANCE:

KOSTER UC coatings can tolerate forklift traffic and are highly abrasion and impact resistant.

CHEMICAL RESISTANCE:

KOSTER UC coatings withstand a wide range of chemical exposure. Acids with pH 4 to 7 and bases with pH 7 to 10 are standard environmental conditions for KOSTER UC coatings.

THERMAL RESISTANCE:

KOSTER UC coatings can withstand thermal shock. Neither exposure to sudden heat nor to sudden cold will affect the coating, which is a requirement for the food industry. The service temperature ranges from -100° F to 220° F.

MICROBIAL / BACTERIAL RESISTANCE:

KOSTER UC coatings are installed seamless and do not support microbial / bacterial growth.

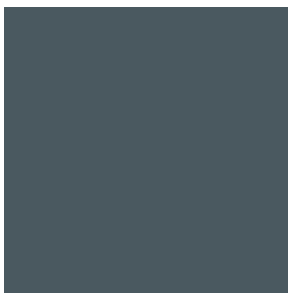
MOISTURE RESISTANCE:

KOSTER UC coatings tolerate up to 100% RH. The coating can be installed directly onto concrete.

VERSATILITY OF DESIGN:

Often a floor coating must meet decorative demands and/or special surface characteristics in addition to chemical, mechanical and thermal requirements. KOSTER UC coatings can be combined with primers, pigmented topcoats, functional additives and decorative broadcast media from the KOSTER product line to meet virtually any design requirement.

KOSTER Urethane Cement Colors



Basalt Grey



Squirrel Grey



Dusty Grey



Beige



Oxide Red



Blue Green



Sky Blue



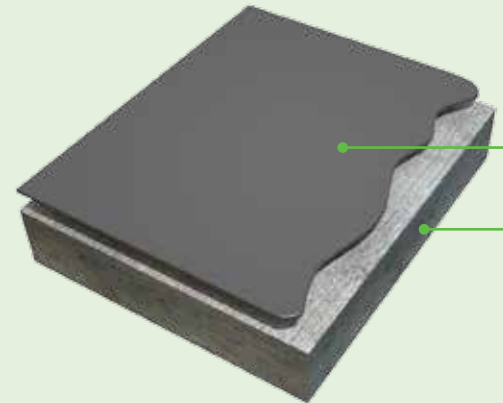
Pale Brown

Which System for Which Purpose?

Stand-Alone KOSTER UC System

This easily applied, fast curing and cost effective flooring system is suitable for a broad range of applications from industrial facilities to healthcare. This single coat system functions as a leveler and provides a rugged and seamless protective coating in one. It allows installers to restore damaged uneven floors in one step. KOSTER UC 100 is pigmented and therefore satisfies basic decorative requirements.

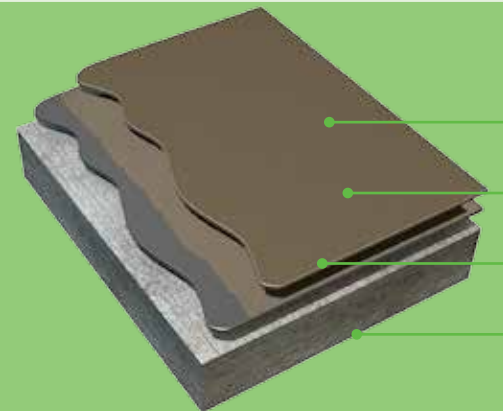
Slip resistance	Medium
Colors	Solid, KOSTER UC Colors
UV	Resistant



Top-Coated KOSTER UC System

This easy and fast applied flooring system is chosen when not only the leveling and ruggedness of the KOSTER UC coating is required, but enhanced slip resistance of the surface is also desired. The surface texture is achieved via a quartz broadcast into the fresh KOSTER UC body coat. Once the body coat has cured, the broadcast is coated with a thin coat of urethane cement.

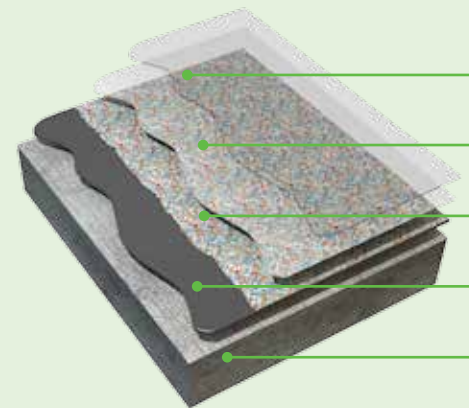
Slip resistance	Medium (adjustable via broadcast)
Colors	Solid, KOSTER UC Colors
UV	Resistant



Decorative KOSTER UC System

Frequently, flooring systems must satisfy decorative demands as well as fulfilling high functional requirements. In these cases, hybrid systems are chosen. They combine a urethane cement body coat into which a decorative aggregate is broadcast with epoxy seal coats and urethane topcoats. The urethane cement body coat provides fast leveling and a rugged body. The decorative broadcast gives the designer a wide spectrum of colors to choose from. The epoxy seal coat and urethane topcoat allow the creation of a wide variety of surface characteristics.

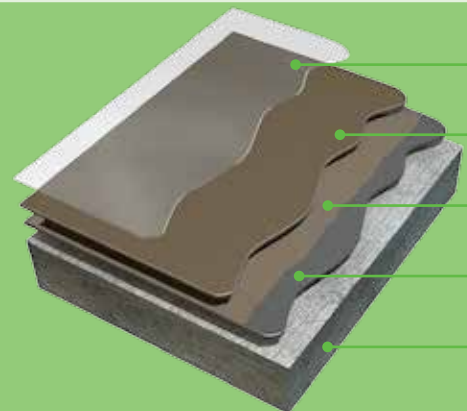
Slip resistance	Medium to High
Surface texture	Adjustable via broadcast
Colors	All Chip and Quartz Colors***
UV	Stable



Shop Floor KOSTER UC System

Industrial environments often pose high functional demands and lower decorative requirements for flooring systems. Hybrid systems are the versatile solution for these cases. A natural quartz is broadcast into the urethane cement which is then sealed with pigmented epoxy and topcoated with a pigmented or clear urethane. With this system all functional demands on a floor surface can be addressed while industrial design requirements are met.

Slip resistance	Medium to High
Abrasion resistance	High
Scratch resistance	High
Surface texture	Adjustable via additive and broadcast
Colors	Solid, KOSTER Standard and Safety Colors
UV	Stable



Application
<p style="text-align: right;">Body Coat</p> <p>KOSTER UC 100 or KOSTER UC 200</p> <p><i>Mechanically cleaned concrete</i></p>
<p style="text-align: right;">Top Coat</p> <p>KOSTER UC 300</p> <p style="text-align: right;">Broadcast</p> <p>KOSTER Quartz Q40 or Q25</p> <p style="text-align: right;">Body Coat</p> <p>KOSTER UC 100 or KOSTER UC 200</p> <p><i>Mechanically cleaned concrete</i></p>
<p style="text-align: right;">Top Coat</p> <p>KOSTER UTC (optional with additive**)</p> <p style="text-align: right;">Seal Coat</p> <p>KOSTER MPE-F</p> <p style="text-align: right;">Broadcast</p> <p>KOSTER Color Chips or KOSTER Color Quartz ***</p> <p style="text-align: right;">Body Coat</p> <p>KOSTER UC 100</p> <p><i>Mechanically cleaned concrete</i></p>
<p style="text-align: right;">Top Coat</p> <p>KOSTER UTC or KOSTER UTC-Color</p> <p style="text-align: right;">Seal Coat</p> <p>KOSTER MPE-F</p> <p style="text-align: right;">Broadcast</p> <p>KOSTER Quartz Q40 or Q25</p> <p style="text-align: right;">Body Coat</p> <p>KOSTER UC 100</p> <p><i>Mechanically cleaned concrete</i></p>

Cure Time
<ul style="list-style-type: none"> • Body Coat: 8 hr • Total: 8 hr*
<ul style="list-style-type: none"> • Top Coat: 8 hr • Body Coat: 8 hr • Total: 16 hr*
<ul style="list-style-type: none"> • Top Coat: 8 hr • Seal Coat: 4 hr • Body Coat: 4 hr • Total: 16 hr*
<ul style="list-style-type: none"> • Top Coat: 8 hr • Seal Coat: 4 hr • Body Coat: 4 hr • Total: 16 hr*

Fields of Applications
<p>Healthcare</p> <ul style="list-style-type: none"> • Operating Rooms • Veterinary Clinics • Healthcare Clinics <p>Industrial</p> <ul style="list-style-type: none"> • Chemical Processing Plants • Automotive Plants • Water Treatment Plants • Warehouses • Freezers or Cold Storage Rooms <p>Governmental</p> <ul style="list-style-type: none"> • Firehouses • Correctional Facilities • Educational Facilities • Aviation Hangers
<p>Healthcare</p> <ul style="list-style-type: none"> • Operating Rooms • Veterinary Clinics • Healthcare Clinics <p>Industrial</p> <ul style="list-style-type: none"> • Chemical Processing Plants • Automotive Plants • Water Treatment Plants • Warehouses • Freezers or Cold Storage Rooms <p>Governmental</p> <ul style="list-style-type: none"> • Firehouses • Correctional Facilities • Educational Facilities • Aviation Hangers
<p>Commercial</p> <ul style="list-style-type: none"> • Stadiums • Restaurants • Retail Stores • Marinas • Showrooms • Atriums or Lobbies <p>Institutional</p> <ul style="list-style-type: none"> • Universities • Libraries • Schools <p>Pharmaceutical</p> <ul style="list-style-type: none"> • Laboratories • Production Facilities
<p>Food Processing</p> <ul style="list-style-type: none"> • Poultry Processing Plants • Beverage Processing Plants • Meat Packaging Plants • Dairy Facilities <p>Restaurants</p> <ul style="list-style-type: none"> • Kitchens • Bakeries <p>Manufacturing</p> <ul style="list-style-type: none"> • Machine Shops • Assembly Lines • Production Areas

* Cure times may vary depending on ambient temperature and/or substrate conditions.

** See KOSTER Shop Floor Brochure for information regarding additives and coating components.

*** See KOSTER Chip & Quartz Floor Brochure for information regarding available colors and coating components.

KOSTER Urethane Cement Products: Technical Data



Self Leveling:

KOSTER UC 100 is a pigmented, self-leveling, 100% solids, 3 component aromatic urethane cement system. KOSTER UC 100 is typically applied at 1/8 in. to 3/16 in. thick.

KOSTER UC 100

Technical data:

Packaging:	44 lb kit
Coverage rate :	50 ft ² /kit at 1/8 in. thickness
Working time:	approx. 15-20 min (at 70°F)
Curing time:	approx. 6-8 hr (at 70°F)

Article number:

KOSTER UC 100 CT 251 026



Trowel Applied:

KOSTER UC 200 is a pigmented, trowel applied 100% solids, 3 component aromatic urethane cement system. KOSTER UC 200 is typically applied at 1/4 in. to 3/8 in. thick.

KOSTER UC 200

Technical data:

Packaging:	53.5 lb kit
Coverage rate :	18 ft ² /kit at 1/4 in. thickness
Working time:	approx. 15-20 min (at 70°F)
Curing time:	approx. 6-8 hr (at 70°F)

Article number:

KOSTER UC 200 CT 252 020



Roller Applied:

KOSTER UC 300 is a pigmented, roller applied, 100% solids, 3 component urethane cement thin film system. It is a heavy duty coating that is typically applied 8 to 16 mils thick. It can be used as a primer for KOSTER UC 100, topcoat for KOSTER UC 200, and as a seal coat for the

KOSTER UC 100 Shop Floor System, as well as for floor patching and coving if mixed with suitable aggregate.

KOSTER UC 300

Technical data:

Packaging:	6.5 lb kit
Coverage rate :	90 ft ² /kit at 8 mils thickness
Working time:	approx. 15-20 min (at 70°F)
Curing time:	approx. 6-8 hr (at 70°F)

Article number:

KOSTER UC 300 CT 253 010

Natural Quartz Broadcast Media/Filler

KOSTER offers two grades of natural quartz. They can be used as broadcasting media to give KOSTER UC coatings surface texture and they can also be

mixed into KOSTER UC products in order to adjust the consistency of the material for coving and filling.



KOSTER Quartz 25 is a natural quartz aggregate with mesh size 25.

Uses:

- Mix into KOSTER UC 300 to adjust consistency for deep fills
- Broadcast into all KOSTER coatings

KOSTER Quartz 25

Technical data:

Packaging: 50 lbs
Mesh Size : 25

Article numbers:

KOSTER Quartz 25 CT 426 050



KOSTER Quartz 40 is a natural quartz aggregate with mesh size 40.

Uses:

- Mix into KOSTER UC 300 for coving
- Broadcast into all KOSTER coatings

KOSTER Quartz 40

Technical data:

Packaging: 50 lbs
Mesh Size : 40

Article numbers:

KOSTER Quartz 40 CT 427 050

Cove Base with KOSTER UC 300

By adding KOSTER Quartz 40 to the mixed KOSTER UC 300, a consistency can be achieved that allows for installation as cove base:

1. Wet prime the area where the cove is to be installed with KOSTER UC 300.
2. Mix material as instructed under "Mixing" on the Technical Data Sheet.
3. Add up to 2 gal or 30 lbs of KOSTER Quartz 40 to the KOSTER UC 300 mix immediately after mixing the kit according to the instructions on the Data Sheet to achieve a consistency as desired for coving. To mix the KOSTER Quartz 40 into the ready mixed KOSTER UC 300, use a 5 in. spiral type mixing paddle.
4. Apply the mixed material using a suitable coving trowel.

Decorative Broadcast Media

If the design aspect of the floor is important in your project, KOSTER Color Chips and KOSTER Color Quartz offers ultimate versatility. The colored chip or quartz is broadcasted into the KOSTER UC body coat and then coated with

transparent seal coats and top coats so the colored broadcast remains visible. The vast range of available colors and sizes allow any design to become reality.



Decorative Chip:

These are decorative colored chips designed for broadcasting into KOSTER UC products. They are specially formulated to enhance the aesthetic qualities of resin-based flooring systems. With an endless range of color styles, texture, size, and blending options. These chips are gaining popularity among customers due to their versatility.

KOSTER Color Chips

Technical data:

Coverage:

Chip Size: 1/4"	5-7 ft ² /lb
Chip Size: 1/16"	3-5 ft ² /lb

Article number:

KOSTER Color Chips CT 429



Decorative Quartz:

KOSTER Color Quartz is an aggregate composed of uniform shapes and sizes of color coated granules for broadcasting into KOSTER UC products. This product provides an array of radiant colors that adds to floor durability and high performance in extreme environments.

KOSTER Color Quartz

Technical data:

Packaging:	50 lb bag
Mesh Sizes:	40 and 25
Coverage:	
Broadcast	½-1 lb/ft ²
Trowel	1-2 lb/ft ²

Article number:

KOSTER Color Quartz CT 486 050

Hybrid Coating System Components: Seal Coat and Top Coat



Seal Coat:

This multi-purpose epoxy is used as a body coat to be broadcast into. It is easy to use and provides exceptional performance in versatile environments. This epoxy may be paired with KOSTER Color Chips and KOSTER Color Quartz to match any color decor. It is also available in a fast curing version which is called KOSTER MPE-F.

KOSTER MPE

Technical data:

Packaging:	3 gal, 7.5 gal, 15 gal, 165 gal drum
Coverage rate:	160 ft ² /gal (at 10 mil)
Drying Time MPE:	approx. 8h (at 70°F)
MPE-F:	approx. 4h (at 70°F)

Article number:

KOSTER MPE CT 261



Top Coat:

KOSTER UTC is a urethane top coat for KOSTER MPE/MPE-F which can also be used as a stand-alone sealer for concrete. The urethane top coat provides resistance to wear, chemicals and abrasion for long lasting protection. This UV stable coating is durable and allows for gloss and color retention. It is also available in a "low temperature" version called KOSTER UTC-LT which is suitable for application in low temperature environments.

KOSTER UTC

Technical data:

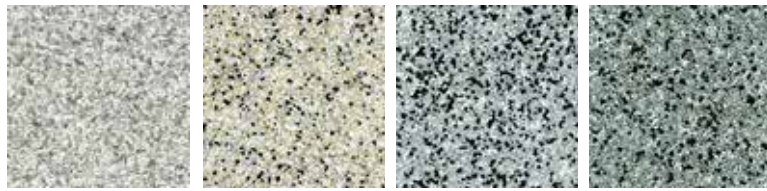
Packaging:	2 gal, 5 gal, 10 gal, barrel
Coverage rate:	530-320 ft ² /gal (at 3 to 5 mils)
Drying time:	approx. 1-2 h (at 70°F)

Article number:

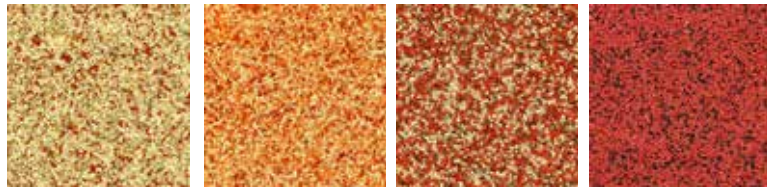
KOSTER UTC CT 321
KOSTER UTC-LT CT 323

KOSTER Color Chips/Color Quartz: Color Reference

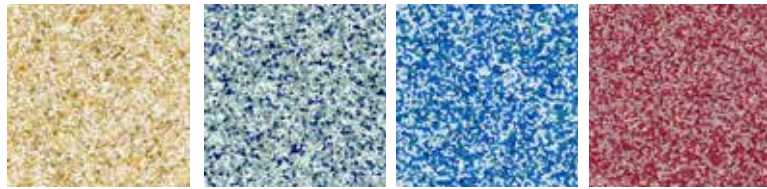
KOSTER Color Quartz (Q40)



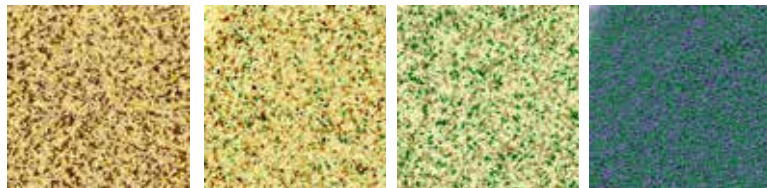
Q40-1001 Q40-1006 Q40-1009 Q40-1010



Q40-1023 Q40-1024 Q40-1025 Q40-4215



Q40-1011 Q40-1019 Q40-1020 Q40-4217

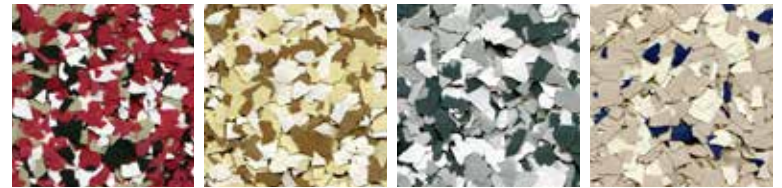


Q40-1015 Q40-1021 Q40-1022 Q40-4216

KOSTER Color Chips (C4)



C4-708 C4-716 C4-616 C4-421



C4-224 C4-412 C4-414 C4-124

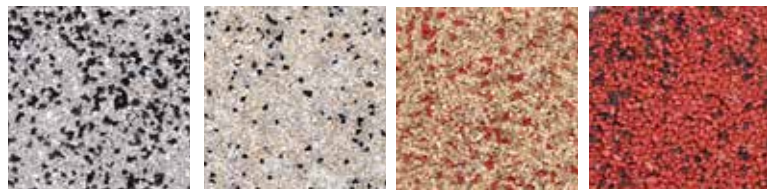


C4-123 C4-316 C4-512 C4-217



C4-127 C4-517 C4-426 C4-206

KOSTER Color Quartz (Q25)

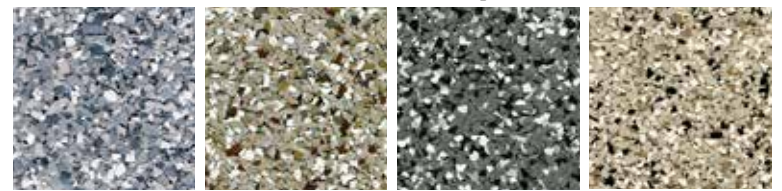


Q25-1009 Q25-1006 Q25-1023 Q25-4215

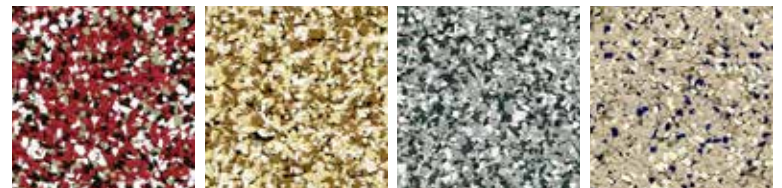


Q25-1019 Q25-1011 Q25-1021 Q25-1022

KOSTER Color Chips (C16)



C16-708 C16-716 C16-616 C16-421



C16-224 C16-412 C16-414 C16-124

*** Custom blending and color matching can be done - requires a 14 day lead time.**

DISCLAIMER: The colors shown in this brochure have been reproduced to represent actual product colors as accurately as possible. However, KOSTER recommends checking your chosen color against a KOSTER sample of the product before purchasing, as lighting conditions and limitations of the printing process affect color tones. Please call to request your color sample.

Accessories



KOSTER Squeegee Blade: KOSTER UC 100 and KOSTER UC 300 is poured on the floor in a ribbon and spread using the appropriate squeegee.

Blade Size:	Width:	Article Number:
Flat (Black)	30 in.	CT 910 007
10-20 mils (Green)	30 in.	CT 910 001
15-25 mils (Orange)	30 in.	CT 910 002
1/2"	30 in.	CT 310 008



KOSTER Squeegee Frame: The frame is designed for use with the KOSTER Squeegee Blade.

Width: 30 in
Article Number: CT 912 001



KOSTER Loop Roller: Immediately after spreading KOSTER UC 100 with a squeegee, the material is rolled with a loop roller to eliminate lines and help release air.

Width: 18 in, 9 in
Article Number: CT 920 001, CT 921 001



KOSTER Roller Frame: The Roller Frame is designed for use with the KOSTER Loop Roller or Nap Roller.

Width: Adjustable
Article Number: CT 930 001



KOSTER 3/8" Nap Roller: Immediately after spreading KOSTER UC 300 with a squeegee, the material is rolled with a nap roller to eliminate lines and help release air.

Width: 18 in, 9 in
Article Number: CT 925 001, CT 926 001

KOSTER Product Range

- W** **Waterproofing systems**
Basement, tank, and area waterproofing
- M** **Masonry**
Restoration of masonry, anti mold systems
- IN** **Injection systems**
Crack injection and crack repair systems
- C** **Concrete protection and repair**
Concrete and mortar additives
- SL** **Self leveling underlayments**
Self leveling mineral underlayments, floor patching materials, corresponding primers

- CT** **Coatings**
Floor and corrosion protection coatings, moisture control systems
- J** **Joint sealing**
Joint sealants, joint tapes
- B** **Wet room waterproofing**
- P** **Façade protection and paints**
- R** **Roofing membranes, roof waterproofing**
- X** **Accessories**





Service you can depend on.

With our large distribution and service network in the US and Canada, KOSTER American offers professional advice and technical support for flooring needs, waterproofing applications, and where moisture and pH are a problem. Call your local KOSTER Representative today!

For further information, please contact:



KOSTER AMERICAN CORPORATION | 2585 Aviator Drive | Virginia Beach, VA 23453
Phone: (757) 425-1206 | Fax: (757) 425-9951 | info@kosterusa.com | www.kosterusa.com