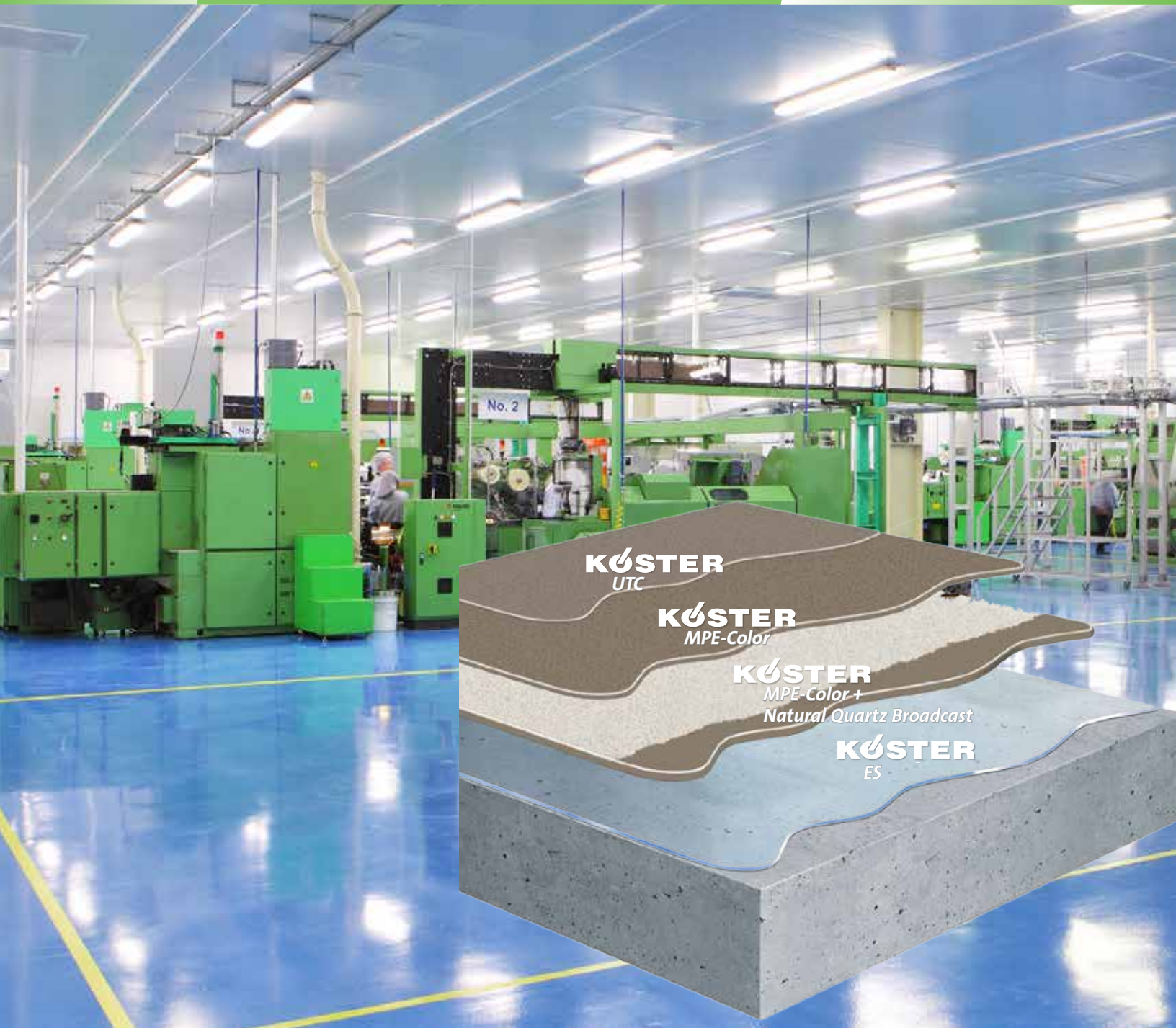


SHOP FLOOR SYSTEMS



KÖSTER
UTC

KÖSTER
MPE-Color

KÖSTER
MPE-Color +
Natural Quartz Broadcast

KÖSTER
ES

KOSTER Shop Floor Systems

Floors in manufacturing plants, auto shops, laboratories, kitchens, schools, etc. are exposed to heavy wear and tear. They have to be durable and easy to maintain. For these applications, KOSTER has developed the KOSTER Shop Floor system which is versatile in design, able to withstand chemical, thermal and mechanical stresses over time, easy to maintain and which can be equipped with a variety of additives that provide special characteristics such as skid-resistance or a matte finish.



A top coat with KOSTER UTC, a urethane coating, will make the epoxy coating completely UV stable and non-yellowing.

EASY TO CLEAN:

The seamless application and the adjustability of the surface characteristics of the KOSTER Shop Floor system allow creating floors that are easy to clean. On request, the coatings system can be given anti-microbial characteristics via an additive. This results in longer lasting floors, since it eliminates deterioration of the coatings and odor caused by micro-organism infestation which can in turn result in premature floor failure / delamination.

DURABLE:

Epoxy flooring systems have proven themselves worldwide for decades now. They are known to be rugged and durable and are able to stand up to the everyday demands of a floor, e. g., in a production facility with fork lift traffic. Their durability can be further improved through additives that increase scratch and wear resistance. This makes them ideal for demanding environments like machine shop floors, heavy duty fork lift areas, automotive repair facilities, aircraft hangars, school cafeterias and other areas where heavy duty abrasion resistance is needed. KOSTER epoxy coatings can also be equipped with an adhesion promoter which allows stronger bonding to difficult substrates.

The KOSTER Shop Floor system is based on 100 % solids zero VOC epoxy coatings. The system's backbone is a pigmented body coat made of KOSTER MPE-Color, an epoxy coating. This body coat receives a broadcast that is suitable to give the cured coating the desired surface structure. The broadcast is locked into the coating by a pigmented seal coat made of KOSTER MPE-Color. Depending on the desired final surface structure, the coating system can be over coated with another layer of pigmented epoxy or with KOSTER UTC-Color, a urethane topcoat, to enhance scratch resistance and UV stability. With their unique formulations the KOSTER coatings are versatile and can be installed on a wide range of different applications. KOSTER epoxy coatings are cycloaliphatic which means that they are UV resistant.

KOSTER Shop Floor Systems



SLIP AND SKID RESISTANT:

With the KOSTER Shop Floor system, it is easy to create a wide variety of different surface textures. By choosing from several different grain size broadcasts and by using several different (transparent or pigmented) topcoats, many different surface textures can be created. Besides that, special additives are available to give the system different grades of slip resistance in wet conditions as well as non-skid characteristics. Non-skid provides constant foot traction where required, even in wet environments. The non-skid characteristics meet ADA and OSHA slip resistance requirements of 0.6 for wet floors.

SEAMLESS:

The systems are installed seamless. In case of spills on the floor, e. g., in a production facility there are no seams through which the spilled materials could leak through the flooring system into the substrate.

CORROSION RESISTANT / CHEMICALLY RESISTANT:

The KOSTER Shop Floor system is corrosion resistant. It can come into contact with a wide variety of chemicals without suffering any damages. The 2-way cure of KOSTER epoxy coatings results in an increased density of the coating for better chemical resistance.

VERSATILE IN DESIGN:

KOSTER MPE-Color and KOSTER UTC-Color are available in 14 standard and 2 safety colors, high gloss and matte finishes are possible. Specific colors can be matched on request.

GREEN:

The components of the KOSTER Shop Floor systems are solvent free. They neither release volatile solvents to the atmosphere during the installation process nor during their installed lifetime. The very low odor makes it possible to keep adjacent work areas open during the installation of the flooring finish.

COST EFFECTIVE/LOW COST MAINTENANCE:

Due to fast cure times, there is minimal downtime in any working project. An important benefit is the longevity of the flooring system, which ensures that the life-cycle cost of the floor is low.

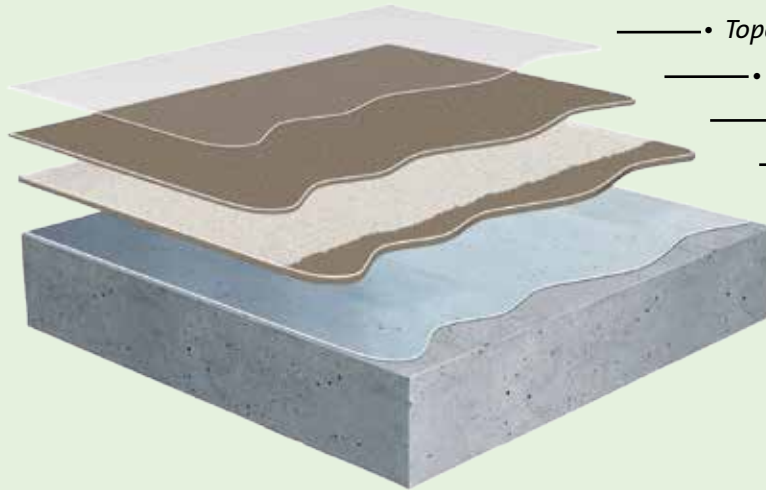
Pre-application Testing

Before any work is done on a flooring project, the concrete substrate is tested for elevated levels of moisture vapor in the concrete. The test results show if the concrete can simply be primed or if a moisture control system, such as KOSTER VAP I® 2000, has to be installed prior to the installation of the final flooring in order to avoid a failure of the final flooring. Core testing is also recommended to evaluate if the concrete contains contaminants that may be harmful to the floor.

After preparing the substrate, the KOSTER Shop Floor / Broadcast Systems can be installed.

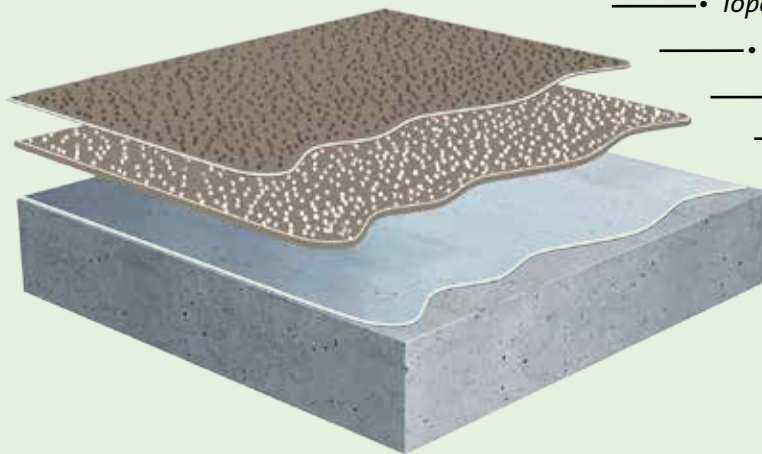


KOSTER Shop Floor Systems: Layer Diagrams



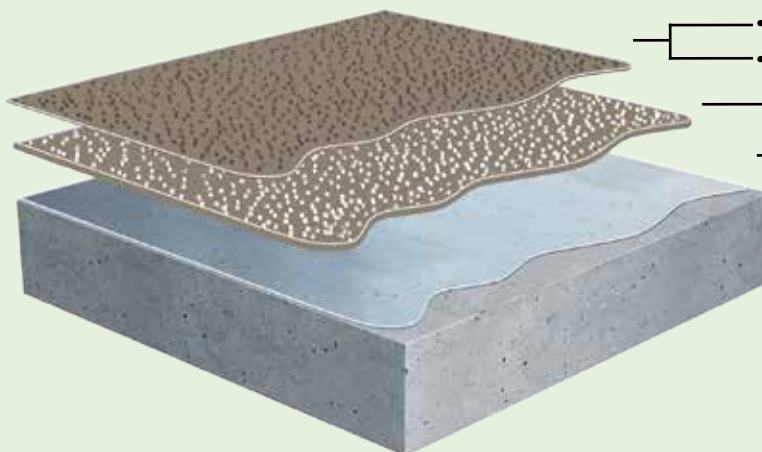
- Topcoat: KOSTER UTC
- Seal Coat: KOSTER MPE-Color
- Broadcast: Natural Quartz
- Body Coat: KOSTER MPE-Color
- Primer: KOSTER ES
- Mechanically cleaned concrete

Broadcast to Rejection into Bodycoat



- Topcoat: KOSTER UTC-Color
- Seal Coat: KOSTER MPE-Color
- Broadcast: KOSTER Anti-Skid Broadcast Coarse
- Body Coat: KOSTER MPE-Color
- Primer: KOSTER ES
- Mechanically cleaned concrete

Light Broadcast into Topcoat / Bodycoat


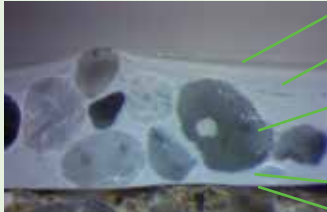

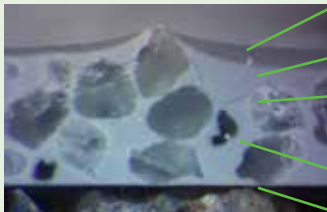

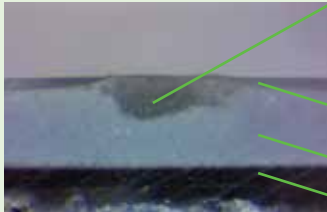

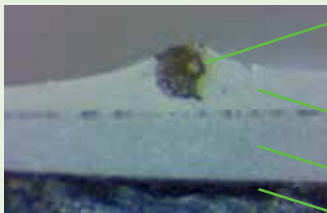
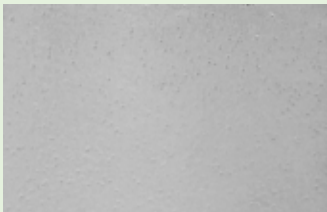
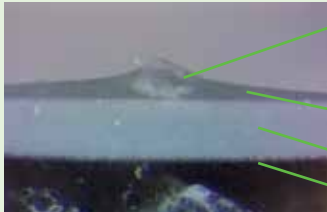

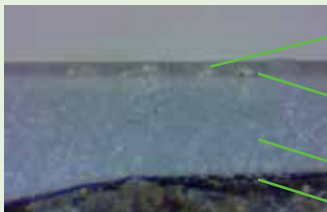


- Additive: KOSTER Abrasion Resistance Additive
- Topcoat: KOSTER UTC-Color
- Body Coat: KOSTER MPE-Color
- Primer: KOSTER ES
- Mechanically cleaned concrete

Additive in Topcoat

KOSTER Shop Floor Systems: Surface Texture

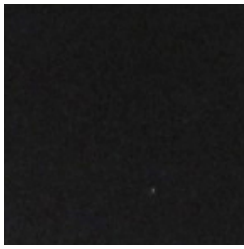
The KOSTER Shop Floor System can be outfitted with a variety of different surface textures. The table below is intended to provide an overview of what surface texture can be created with which system and what the key characteristics of that particular surface texture are.

Surface	Section Texture	System	Key Characteristics
		<p>Top Coat: KOSTER UTC or UTC-Color</p> <p>Seal Coat: 2 coats of KOSTER MPE-Color</p> <p>Broadcast: Natural Quartz broadcast to rejection into body coat</p> <p>Body Coat: KOSTER MPE-Color</p> <p>Primer: KOSTER ES</p>	<p>- Slip Resistance: Low</p> <p>- Colors: Solid, KOSTER Standard and Safety Colors</p> <p>- UV: Stable</p>
		<p>Top Coat: KOSTER UTC or UTC-Color</p> <p>Seal Coat: KOSTER MPE-Color</p> <p>Broadcast: Natural Quartz broadcast to rejection into body coat</p> <p>Body Coat: KOSTER MPE-Color</p> <p>Primer: KOSTER ES</p>	<p>- Slip Resistance: Medium</p> <p>- Colors: Solid, KOSTER Standard and Safety Colors</p> <p>- UV: Stable</p>
		<p>Broadcast: KOSTER Skid-Resistant Broadcast Medium; 15% covering broadcast into bodycoat and/or topcoat</p> <p>Top Coat: KOSTER UTC or UTC-Color</p> <p>Body Coat: KOSTER MPE-Color</p> <p>Primer: KOSTER ES</p>	<p>- Skid Resistance: Medium high</p> <p>- Surface Texture: Aggressive</p> <p>- Colors: Solid, KOSTER Standard and Safety Colors</p> <p>- UV: Stable</p>
		<p>Broadcast: KOSTER Skid-Resistant Broadcast Coarse; 15% covering broadcast into bodycoat and/or topcoat</p> <p>Top Coat: KOSTER UTC or UTC-Color</p> <p>Body Coat: KOSTER MPE-Color</p> <p>Primer: KOSTER ES</p>	<p>- Skid Resistance: High</p> <p>- Surface Texture: Very aggressive</p> <p>- Colors: Solid, KOSTER Standard and Safety Colors</p> <p>- UV: Stable</p>
		<p>Additive: KOSTER Slip Resistance Additive added into top coat</p> <p>Top Coat: KOSTER UTC or UTC-Color</p> <p>Body Coat: KOSTER MPE-Color</p> <p>Primer: KOSTER ES</p>	<p>- Slip Resistance: High in wet environments</p> <p>- Abrasion resistance: Medium</p> <p>- Colors: Solid, KOSTER Standard and Safety Colors</p> <p>- UV: Stable</p> <p>- rubberized</p>
		<p>Additive: KOSTER Abrasion Resistance Additive added into top coat</p> <p>Top Coat: KOSTER UTC or UTC-Color</p> <p>Body Coat: KOSTER MPE-Color</p> <p>Primer: KOSTER ES</p>	<p>- Slip Resistance: Low</p> <p>- Abrasion resistance: High</p> <p>- Colors: Solid, KOSTER Standard and Safety Colors</p> <p>- Scratch Resistance: High</p> <p>- UV: Stable</p>

KOSTER Shop Floor Systems: Colors

KOSTER UTC-Color and KOSTER MPE-Color are both available in 14 standard colors and 2 safety colors. The standard finish of these coatings is high gloss. Upon request, they can be produced with a matte finish.

KOSTER Standard Colors



Jet Black



Anthracite Grey



Basalt Grey



Agate Grey



Squirrel Grey



Dusty Grey



Window Grey



Beige



Oxide Red



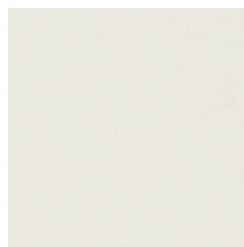
Blue Green



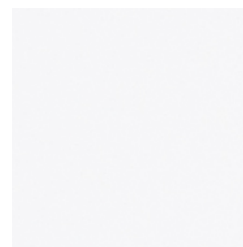
Sky Blue



Grey Beige



Oyster White



Signal White

KOSTER Safety Colors



Traffic Red



Signal Yellow

*** 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 light conditions and limitations of the printing process affect color tones. Please call to request your color sample.

KOSTER Shop Floor Systems: Products

KOSTER MPE-Color

KOSTER MPE-Color is a unique versatile modified cycloaliphatic multi-purpose pigmented epoxy. It is a two component thermosetting, low odor, 100% solids epoxy designed as an all-purpose coating system for various conditions and substrates. It can be modified with a range of additives to enhance characteristics like skid-resistance, slip-resistance, abrasion resistance, bonding, anti microbial etc. KOSTER MPE-Color had a curing time of approx 8 hours. It is also available as a fast curing version called KOSTER MPE-F-Color with a 4 hour cure time.



Benefits of KOSTER MPE-Color

- Yellowing resistant
- Thermal shock resistant
- Wet Substrate Curable
- Available in 14 Standard Colors and 2 Safety Colors

Technical data:

Packaging:	3 gal, 7.5 gal, 15 gal, barrel
Coverage rate :	150 ft ² /gal (at 10 mils)
Working time:	approx. 20 min (at 70°F)
Drying time:	approx. 8h (at 70°F)
Mixing Ratio:	2 part A (resin): 1 part B (hardener) by volume

Article numbers:

KOSTER MPE-Color	CT 263
KOSTER MPE-F-Color	CT 264

The KOSTER Shop Floor Systems offer unlimited versatility to the designers, allowing endless combinations of colors and surface textures.

KOSTER UTC-Color

KOSTER UTC-Color is a unique pigmented versatile polyurethane-polyurea coating. It is a two component thermosetting, low odor, 95% solids, UVstable coating designed as an all purpose coating system for various conditions. It can be applied directly to concrete or on top of epoxies. KOSTER UTC-Color is also available in a version suitable for application in low temperature environments called KOSTER MPE-LT-Color.



Benefits of KOSTER UTC-Color

- UV stable
- Low Temperature curable
- Excellent chemical resistance
- Excellent adhesion
- Fast curing
- Available in 14 Standard Colors and 2 Safety Colors

Technical data:

Packaging:	2 gal, 5 gal, 10 gal, barrel
Coverage rate:	530-320 ft ² /gal (at 3 to 5 mils)
Working time:	approx. 15 min (at 70°F)
Drying time:	approx. 1-2 h (at 70°F)
Mixing Ratio:	1 part A (resin): 1 part B (hardener) by volume

Article numbers:

KOSTER UTC	CT 321
KOSTER UTC-LT	CT 323
KOSTER UTC-LT-Color	CT 324

KOSTER Shop Floor Systems:

Additives to modify surface characteristics



KOSTER Slip-Resistance Additive:

A micronized polypropylene polymer additive that increases the slip resistance of KOSTER UTC and UTC-LT topcoats, especially in wet environments. This product is best suited for interior foot traffic areas. It is mixed directly into the resin just before application.

Benefits of KOSTER Slip-Resistance Additive

- Additive to KOSTER UTC and UTC-LT
- To create slip-resistant surfaces in wet areas

Packaging:

3.5 gal bucket, 1 gal bucket

Article Number: CT 762 001



KOSTER Abrasion Resistance Additive:

A very fine white crystalline additive that is added into KOSTER UTC and UTC-LT coatings at the time of mixing. It greatly increases the abrasion resistance of the cured coating.

Benefits of KOSTER Abrasion Resistance Additive

- Additive to KOSTER UTC and UTC-LT
- To create highly abrasion resistant surfaces

Packaging:

- 1 quart container

Article Number: CT 757 007



KOSTER Skid-Resistance Broadcast - Medium:

White crystalline aluminum oxide aggregate that is broadcast into floor coatings immediately after application, while the coatings are still liquid, in order to make the surface skid-resistant. It is used as a broadcast medium for floor coatings that have above average demands on skid-resistance.

Benefits of KOSTER Skid-Resistance Broadcast - Medium

- AO Broadcast to be used with KOSTER epoxy and urethane coatings
- To create skid-resistant surfaces

Packaging:

- 55 lb bucket, 15 lb bucket

Article Number: CT 486 055



KOSTER Skid-Resistance Broadcast - Coarse:

A white crystalline aluminum oxide aggregate that is broadcast into KOSTER epoxy and urethane coatings to create a skid resistant surface profile.

Benefits of KOSTER Skid-Resistance Broadcast - Coarse

- AO Broadcast to be used with KOSTER epoxy and urethane coatings
- To create skid-resistant surfaces

Packaging:

- 55 lb bucket, 15 lb bucket

Article Number: CT 487 055



KOSTER Matte Additive:

A micronized polypropylene polymer additive that provides a matte effect to KOSTER UTC and UTC-LT, thereby producing a uniform low gloss surface.

Benefits of KOSTER Matte Additive

- Additive to KOSTER UTC and UTC-LT
- To create a matte surface

Packaging:

- pre-dosed at plant

Article Number: CT 763 001

KOSTER Shop Floor Systems: Functional Additives



KOSTER Anti-Microbial Additive:

A film preserving additive that offers the necessary tools to fight against a wide variety of micro organisms. KOSTER Anti-Microbial Additive is designed to provide preservation of the treated film and prevent fungi, algae, and bacteria from breaking down KOSTER coating systems.

Benefits of KOSTER Anti-Microbial Additive

- Additive to KOSTER ES, all MPE and all UTC coatings
- To prevent bacterial growth on cured product

Packaging:

- pre-dosed at plant

Article Number: CT 759 001



KOSTER Adhesion Promoting Additive:

A liquid polymer additive that improves the adhesion properties of KOSTER epoxy and urethane coatings to certain substrates. The addition of this additive is only needed in the prime coat that will bond directly to the substrate in questions.

Benefits of KOSTER Adhesion Promoting Additive

- Additive to KOSTER ES, MPE, and UTC
- To improve adhesion on difficult substrates

Packaging:

- 1 gal canister

Article Number: CT 761 001



KOSTER Fisheye Eliminating Additive:

An inorganic polymer liquid additive that is formulated to improve the flow of KOSTER ES, MPE and MPE-LT coating systems. The additive decreases fisheying and /or the formation of surface abnormalities by decreasing the surface tension which improves wetting.

Benefits of KOSTER Fisheye Eliminating Additive

- Additive to KOSTER ES and MPE
- To eliminate fisheying of the coating during installation on problematic substrates

Packaging:

- 1 gal canister

Article Number: CT 760 010



KOSTER TA Fiber:

A cellulose fiber based thickening additive that is mixed with KOSTER epoxy coatings to adjust the consistency of the coatings.

Benefits of KOSTER TA Fiber

- Additive to KOSTER epoxy and urethane coatings
- To control viscosity - thickening agent

Packaging:

- 44 lb bag, 20 lb bucket

Article Number: CT 755 044



KOSTER TA Fumed Silica:

A hydrophobic fumed silica based thickening agent that is mixed with KOSTER epoxy and urethane coatings to adjust the consistency of the coatings.

Benefits of KOSTER TA Fumed Silica

- Additive to KOSTER epoxy and urethane coatings
- To control viscosity - thickening agent

Packaging:

- 10 lb bag

Article Number: CT 756 053

KOSTER Floor Coatings

KÖSTER BAUCHEMIE AG develops, produces and supplies a comprehensive range of specialty construction materials in the areas of waterproofing and concrete repair. Founded in 1982 in Germany, the KÖSTER Group today consists of 22 companies which are active in more than 50 countries. It is our mission to offer construction materials of highest quality, durability and performance.

As the North American subsidiary, KOSTER American Corporation specializes in moisture vapor control systems, cementitious underlayments, waterproofing for concrete block and masonry substrates and oil removal systems. In 1992 KOSTER American was started. Its core business

were cementitious waterproofing products following the principal product line of Germany then started to pursue the development of products that solve one of the resilient flooring's oldest problems: water vapor transmission and alkalinity.



Our systems are formulated to coat these problem floors with a proven epoxy coating that will effectively reduce water vapor and alkalinity transmission through concrete to levels low enough to allow subsequent coatings and flooring systems to be successfully applied.

It has been this progression of product development that has led KOSTER to where it is today; with its new R&D facility, which is located in Virginia Beach, KOSTER is developing Resinous and Urethane Floor Coating Systems for the American market. These floor coating systems are being produced in Virginia Beach. KOSTER'S flooring products have been designed to provide its

customers with a complete program that will take your project from substrate to final flooring.

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 water vapor and alkalinity 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