



### URETHANE MORTAR SYSTEMS

Flooring that is engineered to withstand the toughest environments.



Arizona Polymer Flooring

# A UNIQUE LINE OF URETHANE MORTAR

CASTORCRETE® is designed for use in the most demanding food and beverage processing areas where high resistance to impact, abrasion and chemical resistance to organic food acids is required. CastorCrete is formulated in part with castor oil\*, which is a renewable resource and contains an ultra-low VOC content\*. It offers exceptional thermal shock resistance and is available with an anti-microbial additive to inhibit the growth of bacteria and microorganisms.

Not only is CastorCrete extremely durable, but it was also designed to address limited work time. This is a common industry problem that often occurs during the installation of polyurethane concretes. In response to this, we developed two formulations of CastorCrete. Our Fast Cure formulation was designed for installations that require a quick turnaround. Our Regular Cure formulation offers more work time and a slower set time, which equates to a much easier installation and better overall aesthetics of your finished flooring system.

*\*Our VOC measurements have been calculated using ASTM D3960 as specified by SCAQMD Rule 1113.*

*\*Castor oil accounts for 10%-20% of the product formulation.*

## FEATURES & BENEFITS SOLUTIONS FOR CONCRETE FLOORING

- Moisture Tolerant
- Longer Work Time
- Thermal Shock Resistant
- Anti-Microbial
- Exceptional Chemical Resistance
- Available in Fast Cure Formulation



*Animal & Institutional Research Facility*



*Commercial Kitchen*



*Food & Beverage Processing Facility*



## URETHANE MORTAR VS. EPOXY FLOORING

The physical properties of urethane mortar systems are far superior to that of epoxy systems when it comes to specific applications such as heavy-duty industrial food processing, pharmaceutical manufacturing facilities, breweries or meat, fish and dairy processing plants. There are several attributes where urethane mortar excels over epoxy.

- Withstands Heavy Abuse
- No Risk to Open Food Products
- Better Resistance to High Temperatures
- Superior Thermal Shock Resistance

# CASTORCRETE BIO FLOOR HDF/HDQ

URETHANE MORTAR & EPOXY HYBRID

CastorCrete Bio Floor HDF/HDQ has been engineered as an epoxy hybrid urethane mortar system consisting of our CastorCrete SL urethane cement slurry mortar, topped with an epoxy decorative acrylic vinyl flake system or an epoxy colored quartz system. The typical system thickness is 3/16 inch (4.8 mm) to 1/2 inch (12.7mm) thick. The system is thermal shock, impact and abrasion resistant, moisture tolerant and UV stable. It offers superior life cycle advantages.

COMMON APPLICATIONS
BIOTECH/PHARMACEUTICALS
ANIMAL & INSTITUTIONAL RESEARCH FACILITIES
WET/DRY PROCESSING AREAS
CLEAN ROOMS
FOOD & BEVERAGE PROCESSING

# CASTORCRETE RT

HEAVY-DUTY RAKE & TROWEL

CastorCrete RT is a heavy-duty urethane cement mortar applied with a rake and trowel. It's designed to protect existing concrete or resurface moderately deteriorated concrete. It can withstand extreme physical exposure including steam cleaning, heavy traffic and heavy impact. Additionally, this system has outstanding chemical resistance to most solvents, acids, alkalis, hot oils and animal by-products while withstanding constant temperature exposures up to 250°. This system is typically installed at 3/16 inch (4.8 mm) to 1/2 inch (12.7mm) thickness.

COMMON APPLICATIONS
PHARMACEUTICAL MANUFACTURING
FOOD & BEVERAGE PROCESSING

# CASTORCRETE TG

HEAVY-DUTY TROWEL APPLIED

CastorCrete TG is a heavy-duty urethane cement mortar. It's designed to protect existing concrete or resurface badly deteriorated concrete. It can withstand extreme physical exposure including steam cleaning, heavy traffic and heavy impact. This system has outstanding chemical resistance to most solvents, acids, alkalis, hot oils and animal by-products while withstanding constant temperature exposures up to 250°. This system is typically installed at 1/4 inch (6.35 mm) to 1/2 inch (12.7mm) thickness.

COMMON APPLICATIONS
PHARMACEUTICAL MANUFACTURING
FOOD & BEVERAGE PROCESSING

# CASTORCRETE RT-B & RT-CQ

HEAVY-DUTY BROADCAST RAKE & TROWEL

CastorCrete RT-B and CastorCrete RT-CQ are heavy-duty urethane cement mortar systems applied with a rake and trowel. They are designed to protect existing concrete or resurface moderately deteriorated concrete, while also offering options for a decorative appearance and/or slip resistance with the use of broadcast quartz or silica sand. They can withstand aggressive physical exposure to heavy duty abrasion and impact, thermal shock and thermal cycling, steam cleaning, heavy traffic and forklift traffic.

Additionally, these systems have outstanding chemical resistance to most solvents, acids, alkalis, hot oils and animal by-products. The CastorCrete RT-B system features a colored quartz broadcast finish in a single solid color or silica sand medium, and is grout coated and top coated with a variety of products depending on the end use environment. This system is typically installed at 3/16 inch (4.8 mm) to 1/4 inch (6.35 mm) thickness. The CastorCrete RT-CQ system is a double broadcast of preblended color quartz and is installed between 1/4 inch (6.35 mm) and 5/16 inch (9.5 mm) thick. Each can be sealed with a variety of topcoats depending on environmental exposures and desired aesthetics.

COMMON APPLICATIONS
PHARMACEUTICAL MANUFACTURING
FOOD & BEVERAGE PROCESSING

# CASTORCRETE SL

MEDIUM-DUTY SLURRY MORTAR

CastorCrete SL is a flowable urethane cement mortar installed at 1/8 inch (3.18mm) to 1/4 inch (6.35 mm) thickness to protect concrete from physical and chemical abuse. It is very resistant to impact and abrasion, and is unaffected by animal fats and most solvents. This system has a coefficient of thermal expansion similar to concrete, allowing it to maintain adhesion when subjected to the thermal shock of hot water. It can be used at constant service temperatures up to 200°.

CastorCrete SL can be purchased with an anti-microbial additive to inhibit the growth of bacteria and microorganisms. It is a quick-turn-around flooring solution for businesses that must minimize downtime. It is usually installed without a primer or topcoat, and can be returned to service 12-24 hours after installation.

COMMON APPLICATIONS
CHEMICAL PROCESSING
PAPER PLANTS
WASTE WATER TREATMENT PLANTS
FOOD & BEVERAGE PROCESSING

# CASTORCRETE SL-B & SL-CQ

MEDIUM-DUTY BROADCAST SLURRY

CastorCrete SL-B and CastorCrete SL-CQ are medium-duty slurry urethane cement mortar systems. They are designed to protect existing concrete or resurface moderately deteriorated concrete, while also offering options for a decorative appearance and/or slip resistance with the use of broadcast quartz or silica sand. These systems can withstand aggressive physical exposure to heavy-duty abrasion and impact, thermal shock, thermal cycling and medium forklift traffic.

Additionally, these systems have outstanding chemical resistance to most solvents, acids, alkalis, hot oils and animal by-products. The CastorCrete SL-B system features a colored quartz broadcast finish in a single solid color or silica sand medium, and is grout coated and topcoated with a variety of products depending on the end use environment. It is typically installed at  $\frac{3}{16}$  inch (4.8 mm) to  $\frac{1}{4}$  inch (6.35 mm) thickness. The CastorCrete SL-CQ system is a double broadcast of preblended color quartz and can be installed between  $\frac{3}{16}$  inch (4.8 mm) to  $\frac{1}{4}$  inch (6.35 mm) thickness. Both can be sealed with a variety of topcoats depending on environmental exposures and desired aesthetics.

## COMMON APPLICATIONS

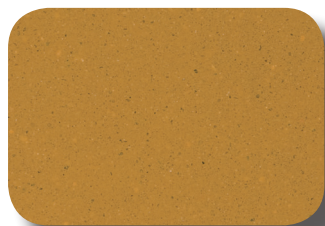
PHARMACEUTICAL MANUFACTURING

FOOD & BEVERAGE PROCESSING

## CASTORCRETE PRODUCT LINE

CASTORCRETE CM	CASTORCRETE RT	CASTORCRETE SL	CASTORCRETE TC	CASTORCRETE TG
A heavy-duty urethane mortar that is designed for troweling cove. It can withstand extreme physical and chemical abuse including steam cleaning and heavy impact. The outstanding chemical resistance is well suited for areas exposed to strong acids, alkali, hot oils, animal fat and most solvents.	A heavy-duty flowable urethane mortar that is designed to resurface moderately deteriorated concrete and withstand extreme physical and chemical abuse including, but not limited to, steam cleaning, carts and heavy impact. It produces a smooth, easy to clean matte finish.	A medium-duty urethane slurry that is designed to resurface concrete and withstand physical and chemical abuse including, but not limited to, high abrasion and impact. It also has outstanding chemical resistance. It produces a smooth, easy-to-clean matte finish.	A flowable polyurethane coating installed 10 to 20 mils as a topcoat for various CastorCrete systems. It is very resistant to impact and abrasion, and is unaffected by animal fats and most solvents.	A heavy-duty trowel applied urethane mortar that is designed to resurface badly deteriorated concrete and withstand extreme physical and chemical abuse including steam cleaning, steel wheeled carts and heavy impact.

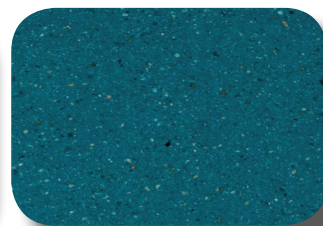
## CASTORCRETE COLOR PALETTE



*Bronze*



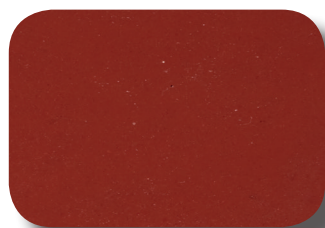
*Coal*



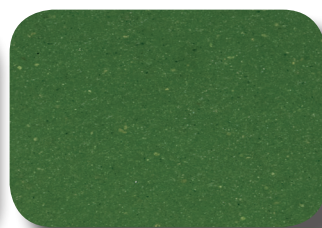
*Cobalt*



*Dark Grey*



*Dark Red*



*Evergreen*



*Light Grey*



*Natural*

*\*A premium will be charged for Cobalt and Evergreen.*



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Part# MCASCRBROCHURE

For more information on CastorCrete urethane mortar systems, please visit [www.castorcrete.com](http://www.castorcrete.com).