

CEILCOTE® 167 COROCRETE®

Vinyl ester flooring

DESCRIPTION

CEILCOTE 167 COROCRETE flooring is a three-component modified vinyl ester flooring material. It is used in applications that require high impact and abrasion resistance and exceptional resistance to acids. The cured system provides a durable topping that withstands mechanical load and chemical attack.

TYPICAL USES

CEILCOTE 167 COROCRETE flooring is used in areas subjected to solvents, acids, fats, oils, water and various chemicals. Its dense surface prevents penetration of corrosives while allowing for easy cleaning. Additional advantages include pre-measured units excellent bond strength to concrete and fast, overnight curing system. Typical applications include:

- Chemical processing areas
- Loading docks
- Aisles and ramps
- Heavy drainage areas
- Laboratory buildings
- Textile mills (dye areas)

ADVANTAGES

- Broad chemical resistance
- Resists mechanical damage
- Seamless, one trowel coat application

COLORS

Available in Gray only.

PHYSICAL PROPERTIES

Generic Type	Modified vinyl ester
Volatile Organic Compounds (V.O.C.)	0.3 lbs./gal.*
Viscosity	Heavy mortar consistency
Weight/Gallon	11.6 + 0.2 lbs.
Flash Point (Seta Flash)	
Liquid	136°F (58°C)
Hardener	141°F (61°C)
Tensile Bond Strength	Exceeds strength of concrete
Tensile Strength (ASTM C 307)	2,077 psi

Compressive Strength
(ASTM C 579)

8,910 psi

Coefficient of Linear Expansion
(ASTM C (531)

1,866x10⁻⁵
in/in/°F

Shrinkage
(ASTM C 531)

0.002 in/in

Service Temperature Limits

Frequent or Severe Spills 120°F
Occasional Splash/Spills 220°F

Abrasion Resistance

Tabor Coeff(CS17 Wheel,
1000 gm,1000 cycles) 195mg

Chemical Resistance Medium concentration acids, most solvents, fats, water, blood, grease

Coverage One unit covers 61 ft² at 1/4" thickness.

Thinning DO NOT THIN

Handling Properties (Approximate Time)

	50°F (10°C)	73°F (23°C)	90°F (32°C)
Working Time	12 hrs.	1 hr.	25 min
RecoatTime	16 hrs.	6 hrs.	4 hrs.
To Handle	36 hrs.	6 hrs.	4 hrs.
Cure Time	3 to 4 days	1 day	12 to 16 hrs

Packaging (3.5 gallon unit)

CEILCOTE 167
COROCRETE Resin 25.5 lbs (3 1/2 gal pail)
CEILCOTE Hardener No. 2C 7 fl ozs
167 Aggregate 3 x 50 lb. bags

Shelf Life

Resin: 5 months if kept tightly sealed at 73°F (23°C)
Hardener: 6 months if kept tightly sealed
Aggregate: Indefinite, if kept dry

LIMITATIONS

Do not apply CEILCOTE 167 COROCRETE when the surface temperature is below 50°F.

CEILCOTE 167 COROCRETE should be recoated within two weeks to assure proper adhesion of topcoat to base coat. For longer exposures, confirm recoatability by wiping the coating with styrene. If surface becomes "tacky", adhesion is acceptable. If not softened by styrene, surface must be gritblasted or mechanically abraded to provide a non-glossy, rough surface.

Not recommended for areas subjected to extreme thermal shock.

APPLICATION

Surface Preparation

- Remove all oil, dirt and contaminants. Remove oil by flushing surface with Concrete Floor Cleaner mixed with water. Sweep residue away. Acid should be removed with Acid Neutralizer.
- Gritblasting or scarification or remove laitance and surface contaminants is recommended. Concrete must be thoroughly cured, free of oils, curing solutions or mold release agents, dust and must be dry at time of application.

NOTE: On old degraded concrete, chip down at least 1/4" to expose firm aggregate.

- Cracks in concrete should be repaired prior to application.
- Floor surfaces must be structurally sound, free from hydrostatic pressure, contaminants, curing compounds or other materials which may prevent adhesion.
- Floors should be sloped to drains at a recommended 1/4" per foot.
- Do not apply in areas where styrene vapors can cause food contamination.

PLACEMENT

- Apply CEILCOTE 380 or 380C Primer to cleaned substrate. Allow to dry for 2-4 hours before applying topping.
- Pour CEILCOTE Hardener No.2 into resin pail. Mix thoroughly. For best results, use air or electric drill. DO not over-mix. Pour catalyzed mixture into a 2-1/2 ft³ concrete or mortar mixer, scraping sides of pail to remove all liquid. Add 3 bags of powder gradually. Mix until all particles are wetted.

NOTE: To avoid air entrapment, operate the mixer at 20 rpm maximum.

- Trowel the topping to a nominal thickness of 1/4" using 1/4" screed bars. Topping may be used in covering but should not be used on vertical surfaces. For best results, spread mixture over approximately 55 to 60 ft² (1/4" thickness) and smooth with steel finishing trowel. If trowel begins to drag on the surface, use styrene as a lubricant.
- Use T-410 for cleaning hands, tools and equipment soon after use.

SAFETY

FOR INDUSTRIAL USE ONLY

Resin Component

WARNING! FLAMMABLE. Resin component is irritant to the skin and eyes. Vapor causes headache, dizziness, nausea and unconsciousness. Always wear protective clothing to minimize body contact. Area must be ventilated. Wear a respirator suitable for organic solvent vapors when working in confined areas. If inhaled, remove victim to fresh air. Give artificial respiration if not breathing. For eye contact, wash with plenty of water immediately. For skin contact, wash with soap and water at once. Remove contaminated clothing. If swallowed, give large amounts of milk or water to drink. Do not induce vomiting. Get medical help immediately. Keep away from all sparks, flames and heat. Squelch fires with foam, dry chemical, carbon dioxide or water spray.

Aggregate Component

WARNING! Contains free silica. Breathing silica dust may cause delayed lung injury. Use OSHA or NIOSH approved respiratory equipment and goggles.

Ceilcote Hardener No.2

WARNING! This organic peroxide should be stored in a cool place away from all sources of heat. It should NEVER be stored in the vicinity of cobalt naphthenate, or other promoters accelerators or strong reducing agents. It is a strong irritant and ingestion can be fatal. Wash contaminated areas thoroughly with soap and water. For eyes, flush immediately for 30 minutes with water, call a physician. If swallowed, induce vomiting. Call a physician immediately. Product Material Safety Data Sheets (MSDS) are available and should be consulted when handling products. These products are for industrial and professional use only - application directions must be followed.

MAINTENANCE

Periodically inspect the applied material and repair localized areas needed. Consult your Master Builders representative for additional information.

TECHNICAL ASSISTANCE

For technical assistance please contact your Master Builders representative.

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