



EUCLID CHEMICAL

# CONCRETE REPAIR MORTARS



## VERTICAL & OVERHEAD SURFACES

### FORM AND POUR/PUMP

#### EucoRepair SCC

Self-consolidating structural repair mortar that is shrinkage compensated and contains polymer, microfiber, and corrosion inhibitor. Can be placed from 1 inch (25 mm) to full depth without aggregate extension. Also available in a faster setting version, **EucoRepair SCC Fast**.

#### Eucocrete

High strength, microsilica modified repair mortar that has an extended working time for ease of placement. Can be placed full depth with aggregate extension.

#### Tamms Form and Pour

Shrinkage compensated concrete repair mortar that utilizes a smaller aggregate for increased flowability.

### HAND APPLIED

#### EucoRepair V100

NSF/ANSI Standard 61 approved, quick setting, low shrinkage repair mortar fortified with polymer and microfiber for high performance vertical and overhead repair.

#### Speed Crete Red Line

Rapid setting concrete and masonry repair mortar that can be shaved to match the contour of the surrounding concrete. Reaches final set in just 30 minutes.

#### Speed Crete PM

Polymer modified, easy to use repair mortar that can be applied from featheredge to 3 inches (76 mm) per lift.

### Verticoat Supreme

Microsilica and latex modified, non-sag repair mortar for trowel applied vertical and overhead repairs requiring high performance.

#### Verticoat

Two part latex modified mortar that sets rapidly for quick and easy repair of vertical or overhead concrete surfaces.

#### Eucopatch

Fast setting repair mortar for vertical and overhead concrete that can also be used in light-duty, pedestrian, horizontal applications.

#### Tammscrete

Polymer modified, cement based material used to produce a smooth finish on precast, cast-in-place, tilt-up or other concrete surfaces with bugholes or other imperfections.

#### Tamms Structural Mortar

NSF/ANSI Standard 61 approved repair mortar with fiber reinforcement and a corrosion inhibitor designed for low pressure spray application or hand applied concrete repair.

### SHOTCRETE

#### Eucoshot

Silica fume modified, dry shotcrete repair material. Available in versions that include fiber reinforcement, silica fume, water repellents, and more.

### UNDERWATER

#### Speed Crete Blue Line

Fast setting underwater concrete patching material that can be installed without forming at a zero-slump consistency.

## VERTICAL & OVERHEAD SURFACES

PLACEMENT CATEGORY		FORM AND POUR/PUMP			CEMENTITIOUS TROWELABLE						TROWELABLE & SPRAYABLE	SPRAYABLE	UNDERWATER	
<b>PRODUCT NAME</b>		EucoRepair SCC EucoRepair SCC Fast	Eucocrete	Tamms Form and Pour	EucoRepair V100	Eucopatch	Tammscrete	Verticoat	Verticoat Supreme	Speed Crete Red Line	Speed Crete PM	Tamms Structural Mortar	Eucoshot	Speed Crete Blue Line
<b>PRODUCT CHARACTERISTICS</b>		Self-Consolidating, Fiber Reinforced, Low Shrinkage, Full Depth Without Extending	High Strength, Full Depth Repairs (if extended)	Smaller Aggregate, Enhanced Pumpability	Low Shrinkage, Fiber Reinforced, NSF/ANSI 61	Versatile, Color Similar to Plain Concrete	Polymer Modified, Smooth Consistency	Two Part, Polymer Modified	Corrosion Inhibitor, Polymer and Microsilica Modified	Fast Setting, Can be Shaved to Desired Shape	Polymer Modified	Fiber Reinforced, NSF/ANSI 61, Spray or Trowel	Silica Fume Modified	Underwater Patching Material, Rapid Set
Minimum Thickness, in. (mm)		1" (25.4)	1" (25.4)	3/4" (19)	1/8" (3.2)	1/16" (1.6)	Featheredge	1/8" (3.2)	1/4" (6)	3/4" (19)	Featheredge	3/8" (10)	1" (25.4)	3" (76)
Maximum Thickness in. (mm)	Neat	Full Depth	6" (152)	3" (76)	V: 4" (102) OH: 2" (51)	4" (102)	1/8" (3)	4" (102)	2" (51)	2" (51)	3" (76)	2" (51)	6" (152)	3" (76)
	Extended	NA	Full Depth	Full Depth	NA	NA	1/4" (6)	NA	NA	4" (102)	NA	NA	NA	NA
Number of Components		One	One	One	One	One	One	Two	One	One	One	One	One	One
Extendable		No	Yes	Yes	No	No	Yes	No	No	Yes	No	No	No	No
Yield, ft <sup>3</sup> (m <sup>3</sup> )	Neat	.37 (.0105)	.37 (.0105)	.42 (.0119)	.45 (.0127)	.44 (.0124)	.40 (.0113)	.48 (.0136)	.48 (.0136)	.47 (.0133)	.50 (.0142)	.45 (.0127)	.42 (.0119)	.47 (.0133)
	Extended	NA	.46 (.013)	.62 (.02)	NA	NA	.45 (.013)	NA	NA	.70 (.02)	NA	NA	NA	NA
Working Time, minutes		SCC:180/SCC Fast: 30	150	60	15	6	20	20	30	5	10	30	180	2-3
Initial Set, hr:min		SCC 9:00/SCC Fast 0:50	3:00	6:20	:20	:08	:25	:25	1:00	:08 - :10	:15	1:00	3:40	:03 - :05
Final Set, hr:min		SCC 10:00/SCC Fast 1:00	4:00	7:30	:35	:20	:40	:40	3:00	:20	:40	2:00	4:40	:20
Temperature Limitations		> 45°F (7°C)	> 45°F (7°C)	> 40°F (4°C)	> 45°F (7°C)	> 45°F (7°C)	> 40°F (4°C)	> 45°F (7°C)	> 45°F (7°C)	> 35°F (2°C)	> 45°F (7°C)	> 40°F (4°C)	> 40°F (4°C)	> 32°F (0°C)
Compressive Strength, psi (MPa)		SCC 4 Hour 1 Day 7 Day Final	SCC Fast 3,000 (21) 4,500 (31) 6,000 (41) 8,000 (55)	5,000 (34) 5,000 (34) 8,000 (55) 10,000 (69)	2,000 (14) 3,000 (21) 4,500 (31) 6,000 (41)	2,000 (14) 3,000 (21) 4,500 (31) 6,500 (45)	3,000 (21) 3,000 (21) 4,500 (31) 4,500 (31)	4,000 (28) 6,000 (41) 6,500 (45)	2,000 (14) 3,500 (24) 5,500 (38)	2,550 (18) 4,000 (28) 5,700 (39)	2,500 (17) 6,500 (45) 7,000 (48)	3,200 (22) 6,200 (43) 8,500 (59)	3,500 (24) 7,000 (48) 9,500 (65)	3,200 (22) 4,000 (28) 6,015 (42)

Technical results shown were determined at laboratory conditions.

For additional product information refer to the technical data sheet at [www.euclidchemical.com](http://www.euclidchemical.com).

For more than a century, The Euclid Chemical Company has served as a leading supplier to the concrete and masonry industry offering a full line of engineered concrete admixture and construction products marketed under the EUCLID brand name. These products include concrete admixtures, block and masonry additives, curing and sealing compounds, epoxy adhesives, floor and wall coatings, structural grouts for columns, equipment and machinery, joint fillers and repair products. The Euclid Chemical Company strives to bring innovative technologies and products to the concrete market with industry leading customer service.



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## ADDITIONAL EUCLID CHEMICAL SOLUTIONS FOR CONCRETE REPAIR AND PROTECTION

- Cathodic protection
- Epoxy crack injection
- Crystalline waterproofing
- Chemical grouts
- Floor and traffic deck coatings
- Architectural wall coatings
- Moisture mitigation systems
- Water repellent sealers



## HORIZONTAL SURFACES

### FORM AND POUR/PUMP

#### EucoRepair SCC

Self-consolidating structural repair mortar that is shrinkage compensated and contains polymer, microfiber, and corrosion inhibitor. Can be placed from 1 inch (25 mm) to full depth without aggregate extension. Also available in a faster setting version, **EucoRepair SCC Fast**.

#### Eucocrete

High strength, microsilica modified repair mortar that has an extended working time for ease of placement. Can be placed full depth with aggregate extension.

#### Tamms Form and Pour

Shrinkage compensated concrete repair mortar that utilizes a smaller aggregate for increased flowability.

### HAND APPLIED

#### VersaSpeed 100

Rapid hardening, low shrinkage, microfiber reinforced repair mortar. Repaired areas can be open to standard tire traffic 2 hours following final set and an epoxy coatings can be applied after 4 hours.

#### VersaSpeed LS100

Similar to VersaSpeed 100, but with a longer set time. Can be open to light traffic after 4 hours and coated with epoxy after 5 hours.

#### Tamms Thin Patch

Polymer modified mortar formulated for horizontal, vertical, or overhead repair from featheredge up to 1 inch (25 mm).

#### Express Repair

Single component, cement based patching mortar with rapid strength gain.

### HORIZONTAL TOPPING

#### Concrete-Top Supreme

Latex and microsilica modified, cementitious topping providing protection from corrosion and excellent durability under freeze-thaw conditions. Suitable for application depth from 3/8 inch to 2 inches (9.5 mm to 50 mm).

#### Thin-Top Supreme

Similar to Concrete-Top Supreme in application and performance, but for thinner toppings from 1/16 inch to 3/8 inch (1.6 mm to 9.5 mm).

#### Euco Re-Cover

Polymer modified, microfiber reinforced resurfacer that gives a fresh appearance to new concrete that has been marred by rain or plastic coverings, or concrete damaged by deicing chemicals or freeze-thaw cycling.

#### Tammspatch II

Two component, polymer modified, cementitious repair mortar and underlayment for numerous applications. Can be mixed at different consistencies, from very flowable to stiff, to meet the requirements of the repair project.

### SELF-LEVELING UNDERLAYMENTS

#### EucoFloor SL 160

Single component, portland cement based self-leveling underlayment for installation from featheredge to 1 inch (25 mm) neat. Can also be used as an indoor, light duty wearing surface when protected by a Euclid Chemical epoxy/urethane coating system.

#### Super Flo-Top

Single-component, flowable, portland cement based underlayment that delivers high early strength.

### POLYMER BASED HORIZONTAL REPAIR

#### Euco QWIKstitch

Two component very low viscosity hybrid urethane that repairs cracks, spalls, popouts, and damaged joints. Concrete repaired with QWIKstitch can be opened to traffic in less than one hour. Bulk units can be pigmented with Euclid Universal Color Packs, available in 33 standard colors.

#### EUCO 456S

Epoxy and iron aggregate repair material for use where exceptional impact and abrasion resistance are required.

#### Duralflex Fastpatch

Low modulus, natural aggregate epoxy repair mortar designed to provide a high strength, wear resistant surface to damaged high-use floors. Duralflex Fastpatch can be pigmented on the jobsite with Euclid Universal Color Packs, available in 33 standard colors.

## HORIZONTAL SURFACES

PLACEMENT CATEGORY	FORM AND POUR/PUMP			HAND APPLIED				TOPPING			REPAIR & UNDERLAYMENT	SELF-LEVELING UNDERLAYMENTS		POLYMER BASED REPAIR			
PRODUCT NAME	EucoRepair SCC EucoRepair SCC Fast	Eucocrete	Tamms Form and Pour	Express Repair	VersaSpeed 100	VersaSpeed LS100	Tamms Thin Patch	Concrete-Top Supreme	Thin-Top Supreme	Euco Re-Cover	Tammspatch II	EucoFloor SL 160	Super Flo-Top	Euco QWIKstitch	Euco 456S	Duralflex Fastpatch	
PRODUCT CHARACTERISTICS	Self-Consolidating, Fiber Reinforced, Low Shrinkage, Full Depth Without Extending	High Strength, Full Depth Repairs (if extended)	Smaller Aggregate, Enhanced Pumpability	Rapid Strength Gain, Meets ASTM C 928	Fast Setting, Contains Microfiber, Coat in 4 hrs	Extended Working Time, Coat in 5 hrs	Versatile, Easy to Use	Heavy Duty, High Strength	Heavy Duty, High Strength, Thin Applications	Thin Resurfacer, Microfiber Reinforced	Easy to Use, Can be Applied Horizontally or Vertically	Portland Based Underlayment or Light Duty Wearing Surface	Portland Based Underlayment	Low Viscosity Hybrid Urethane, Fast Cure	Epoxy & Iron Aggregate Mortar, Impact & Abrasion Resistant	Low Modulus Epoxy Mortar	
Minimum Thickness, in. (mm)	1" (25.4)	1" (25.4)	3/4" (19)	1/2" (13)	1/4" (6)	1/4" (6)	Featheredge	3/8" (10)	1/16" (1.6)	Featheredge	Featheredge	Featheredge	Featheredge	NA	1/8" (3)	1/4" (6)	
Maximum Thickness in. (mm)	Neat	Full Depth	6" (152)	3" (76)	1.5" (38)	4" (102)	4" (102)	1" (25.4)	2" (51)	3/8" (10)	3/8" (10)	1" (25.4)	1" (25.4)	1" (25.4)	2" (50)	3" (76)	
	Extended	NA	Full Depth	Full Depth	3" (76)	6" (152)	6" (152)	NA	6" (152)	1.25" (32)	N/A	2.5" (64)	2.5" (64)	3" (76)	NA	NA	
Number of Components	One	One	One	One	One	One	One	One	One	One	Two	One	One	Two	Three	Three	
Extendable	No	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	
Yield ft <sup>3</sup> (m <sup>3</sup> )	Neat	.37 (.0105)	.37 (.0105)	.42 (.0119)	.42 (.0119)	.37 (.0105)	.39 (.011)	.40 (.0113)	.40 (.0113)	.43 (.012)	.48 (.0136)	.42 (.0119)	.52 (.015)	.52 (.0147)	.33 in <sup>3</sup> (540 cm <sup>3</sup> ) per 20 oz. cartridge	.35 (.0099)	.40 (.0113)
	Extended	NA	.46 (.013)	.62 (.018)	.75 (.021)	.52 (.015)	.52 (.015)	NA	.47 (.013)	.53 (.015)	N/A	.55 (.016)	.65 (.018)	.65 (.018)	NA	NA	
Working Time, minutes	SCC:180/SCC Fast: 30	150	60	20	15	45	20	30	35	30	45	15	15	10	75	25	
Initial Set, hr:min	SCC 9:00/SCC Fast 0:50	3:00	6:20	:20 to :50	:10 to :20	:30 to 1:00	:30 to 1:00	1:00	1:00 to 1:30	1:00	1:30 to 3:00	:45	:45	NA	NA	NA	
Final Set, hr:min	SCC 10:00/SCC Fast 1:00	4:00	7:30	1:00	:20 to :40	1:00 to 1:40	1:00 to 2:00	3:00	3:00	2:30	4:00 to 5:00	1:00	1:00 to 1:30	NA	NA	NA	
Temperature Limitations	> 45°F (7°C)	> 45°F (7°C)	> 40°F (4°C)	> 35°F (2°C)	> 35°F (2°C)	> 45°F (7°C)	> 40°F (4°C)	> 45°F (7°C)	> 45°F (7°C)	> 50°F (10°C)	> 40°F (4°C)	> 40°F (4°C)	> 40°F (4°C)	> 0°F (-18°C)	> 50°F (10°C)	> 40°F (4°C)	
Compressive Strength, psi (MPa)	SCC Fast	SCC Fast															
	4 Hour		3,000 (21)			3,200 (22)	5,000 (34)	2,800 (19)					900 (7)	1,300 (9)	4,600 (32)		
	1 Day	2,750 (19)	4,500 (31)	5,000 (34)	5,000 (34)	5,800 (40)	6,000 (41)	4,000 (28)					2,000 (14)	2,200 (15)			7,000 (49)
	7 Day	4,800 (33)	6,000 (41)	8,800 (61)	8,000 (55)	7,000 (48)	7,500 (52)	5,000 (34)	1,200 (8)	4,000 (28)	2,000 (14)	1,650 (11)	3,000 (21)	3,000 (21)	4,800 (33)	12,000 (83)	4,800 (33)
Final	5,600 (39)	8,000 (55)		10,000 (69)	9,000 (62)	10,500 (72)	8,000 (55)	3,500 (24)	9,500 (66)	6,000 (41)	4,000 (28)	5,000 (34)	3,500 (24)	4,800 (33)	13,500 (93)	9,800 (68)	

Technical results shown were determined at laboratory conditions.

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