

CONCRETE REPAIR MORTARS







VERTICAL SURFACES

CEMENTITIOUS FORM AND POUR/PUMP eas

Eucocrete A

Single-component, microsilicamodified, full-depth repair mortar that achieves high strength and has an extended working time for ease of placement.

Eucocrete Supreme

Single-component, polymer modified, full-depth repair mortar with an extended working time and integral corrosion inhibitor.

Tamms Form and Pour A

Single-component, shrinkage compensated concrete repair mortar containing a corrosion inhibitor that incorporates smaller aggregate and can be placed at 3/4" to 3".

CEMENTITIOUS TROWELABLE

EucoRepair V100 A

Single-component, fast-setting, very low shrinkage repair mortar formulated with unique polymers and fiber reinforcement for trowel applied vertical/overhead repairs.

Eucopatch

Single-component, easy-to-use, fast setting patch and repair mortar recommended for use on new concrete and existing masonry surfaces.

Tammscrete

Single-component, polymer modified, cementitious finishing material used for achieving a smooth finish on precast, poured in place, tilt-up or other unfinished or damaged concrete surfaces.

Verticoat

Versatile, two-component, polymer modified cementitious mortar sets rapidly to allow quick, easy repairs.

Verticoat Supreme *

Single-component, polymer modified, easy-to-use cement-based repair mortar formulated with a corrosion inhibitor, designed specifically for high performance vertical and overhead applications.

Speed Crete Red Line

Single-component, fast setting patching material may be "shaved" to desired shape and is designed to reach initial set in 8-10 minutes, final set within 20 minutes.

Speed Crete PM

Single-component, polymer modified repair mortar that contains a migratory corrosion inhibitor. This easy to use material can be applied from featheredge to 3" per lift.

Tamms Structural Mortar *

Single-component repair mortar with fiber reinforcement and a corrosion inhibitor designed for low pressure spray application or hand troweled concrete repairs.

SPRAYABLE

Eucoshot A

Single-component, silica fume modified, shotcrete repair product designed for application by dry shotcrete method (gunite) for interior or exterior repairs. More versions available. (see Mining and Tunneling section on www.euclidchemical.com for complete line of shotcrete products)

UNDERWATER

Speed Crete Blue Line

Single-component, fast setting, underwater cement-based patching material designed for use without forming at a non-slump consistency.

For additional product information refer to the product technical data sheet. $\label{eq:continuous}$

VERTICAL/OVERHEAD SURFACE This symbol ♠ indicates product can contribute points toward the LEED certification of a building.

PLACEMENT CATEGORY	CEMENTITIC	OUS FORM AND I	POUR/PUMP				SPRAYABLE	UNDERWATER						
PRODUCT NAME	Eucocrete Supreme		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	
PRODUCT CHARACTERISTICS	Microsilica Modified, Corrosion Inhibitor	Corrosion Inhibitor, Latex and Microsilica Modified	Corrosion Inhibitor, Latex and Microsilica Modified	Corrosion Inhibitor, Polymer Modified, Fiber Reinforced	Versatile, Color Similar to Plain Concrete	Polymer Modified, Smooth Consistency	Polymer Modified	Corrosion Inhibitor, Latex and Microsilica Modified	Fast Setting, Can be "Shaved" to Desired Shape	Corrosion inhibitor, Polymer modified	Fiber Reinforced, Corrosion Inhibitor, Trowelable	Silica Fume Modified	Underwater Patching Material, Rapid Set	
Number of Components	One	One	One	One	One	One	Two	One	One	One	One	One	One	
Extendable	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	No	No	No	No	
Yield, ft³ (m³) Neat Extended	.37 (.0105)	.37 (.0105)	.42 (.0119)	.45 (.0127)	.44 (.0125) NA	.40 (.0113)	.48 (.0136) NA	.48 (.0136) NA	.50 (.0142)	.50 (.0142) NA	.45 (.0127) NA	.42 (.0119) NA	.50 (.0142) NA	
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)	1/8" (3.2)	Featheredge	3/8" (10)	1" (25.4)	3/4" (19)	
Maximum Thickness in. (mm) Neat Extended	6" (152) Full Depth	6" (152) Full Depth	3" (76) 6" (152)	4" (102) 6" (152)	4" (102) NA	1/8" (3)	4" (102) NA	2" (51) NA	2" (51) 4" (102)	3" (76) NA	2" (51) NA	6" (152) NA	3" (76) NA	
Working Time, minutes*	150	120	60	15	6	20	20	30	5	10	30	180	2-3	
Initial Set, hr:min*	3:00	6:00	2:10	:20	:08	:25	:25	1:00	:08 - :10	:15	1:00	3:40	:03 - :05	
Final Set, hr:min*	4:00	7:00	3:50	:35	:20	:40	:40	2:30	: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)	> Freezing	
Strength Gain PSI (MPa) 4 Hour 1 Day 7 Day Final	5,000 (35) 8,800 (61) 10,000 (69)	4,700 (32) 7,250 (50) 11,000 (76)	3,000 (21) 6,500 (45) 7,800 (54)	2,000 (14) 3,000 (21) 4,500 (31) 6,000 (41)	2,000 (14) 4,500 (31) 6,500 (45)	3,000 (21) 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)	
Compatible with Galvanic Anodes	\checkmark		✓	✓	✓		\checkmark		✓	✓	Y	✓		
Structural Repairs	✓	✓	✓	✓				✓		✓	V	✓	√	
Cosmetic Repairs	\checkmark	✓	✓	✓	√	✓	\checkmark	√	✓	✓	Y			
Marine Repairs								√		√	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	√	√	

For more than 100 years, The Euclid Chemical Company has served as a leading supplier to the concrete and masonry industry with over 400 engineered concrete admixtures and construction products marketed under the EUCO, EUCON, Tamms, Dural, Speed Crete and Increte brand names. The Euclid Chemical Company's experienced field team is available to support you and your projects using solutions and products, which are manufactured under the stringent standards of our ISO 9001:2008 certified quality system.



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^{*}Technical results developed under laboratory conditions at approximately mid 70° F (21° C) range.

EUCO SOLUTIONS FOR CONCRETE REPAIR

Selecting the proper material for concrete repairs, at times, can be difficult and time consuming with all of the different repair mortars that are available today. There are many factors that must be considered before selecting a concrete repair material. Location, climate, in-service conditions, and corrosive environment are just a few examples. This guide is designed to provide a simple, yet thorough outline of The Euclid Chemical Company's repair mortars along with their respective key properties, features, and application methods.



HORIZONTAL SURFACES

FORM AND POUR/PUMP

Eucocrete A

High-performance, single-component, microsilica-modified, full-depth repair mortar that achieves high strength and has an extended working time for ease of placement.

Tamms Form and Pour *

Single-component, shrinkage compensated concrete repair mortar that contains a corrosion inhibitor, incorporates smaller aggregate, and can be placed at 3/4" to 3".

CEMENTITIOUS TROWELABLE

Duraltop Flowable Mortar

Two-component, polymer modified, flowable, cementitious patch and repair mortar for hard-to-reach places.

Express Repair

Single-component, cement-based, ready-to-use, patch and repair mortar with rapid strength gain.

VersaSpeed

For horizontal, trowel applications and form and pour projects requiring fast set, this versatile, single-component repair mortar can be open to traffic in as little as two hours from initial set and can be coated with an epoxy in as little as four hours.

VersaSpeed LS *

Offers all the same great characteristics as Versaspeed, but with a delayed set time for use in elevated temperatures.

Euco-Speed MP *

Single-component, magnesium phosphate patching mortar bonds tenaciously to properly prepared concrete and provides a durable patch which is resistant to damage from freeze/thaw cycling and deicing salt, formulated to deliver high early strength for fast turnaround projects even down to 0° F (-18° C).

CEMENTITIOUS OVERLAYS

Concrete-Top Supreme *

Single-component, polymer modified deck repair mortar with integral corrosion inhibitor combats penetrating salts and water and offers superior resistance to freeze/thaw damage for use at thicknesses of 3/8" to 2".

Thin-Top Supreme A

Single-component, durable highstrength overlay with a corrosion inhibitor delivers excellent resistance to freeze/thaw damage while forming a tenacious bond to concrete for toppings 1/16" to 3/8".

Euco Re-Cover

Single-component, micro-fiber reinforced, polymer modified, thin overlay designed to resurface old concrete or new concrete that has been damaged.

TammsPatch II A

Two-component polymer reinforced, multi-purpose cementitious overlay and underlayment.

SELF-LEVELING UNDERLAYMENT

EucoFloor SL 160

Single-component, cement-based, self-leveling compound specially designed to be used as an underlayment, as well as, an indoor, light-duty wearing surface.

Super Flo-Top

Single-component, flowable, Portland cement-based underlayment that delivers high early strength and can be pumped through standard equipment. It is recommended for uneven surfaces and has an extended open time while exhibiting excellent self-healing properties.

Flo-Top

Single-component, free flowing compound specially designed for easy application over concrete floors as an underlayment for subsequent placement of floor coverings.

EPOXY

EUCO 456S

Epoxy resin system and a specially processed graded iron aggregate provides excellent adhesion, abrasion and impact resistance on floors with extra heavy duty traffic, and is ideal where exceptional strength and durability are needed.

Duralflex Fastpatch

100% solids, low modulus, moisture insensitive epoxy repair kit provides excellent resistance to thermal and mechanical movement with a rapid cure that minimizes downtime.

For additional product information refer to the product technical data sheet.

*Technical results developed under laboratory conditions at approximately mid 70° F (21° C) range.

HORIZONTAL SURFACE CHART

This symbol ♠ indicates product can contribute points toward the LEED certification of a building.

PLACEMENT CATEGORY	FORM AND I	POUR/PUMP	CEMENTITIOUS TROWELABLE					CEMENTITIOUS OVERLAYS				SELF-LEVELING UNDERLAYMENT			EPOXY	
PRODUCT NAME	Eucocrete	Tamms Form and Pour	Duraltop Flowable Mortar	Express Repair	VersaSpeed	VersaSpeed LS ♣	Euco-Speed MP	Concrete-Top Supreme	Thin-Top Supreme	Euco Re-Cover	TammsPatch II	EucoFloor SL 160	Super Flo-Top	Flo-Top	EUCO 456S	Duralfle: Fastpatcl
PRODUCT CHARACTERISTICS	Microsilica Modified, Corrosion Inhibitor	Corrosion Inhibitor, Polymer & Silica Fume Enhanced	Corrosion Inhibitor, Polymer Modified	Corrosion Inhibitor	High Early Strength, Quick Coat Time	High Early Strength, Quick Coat Time	Rapid Setting Magnesium Phosphate	Corrosion Inhibitor, Latex and Microsilica Modified	Corrosion Inhibitor, Latex and Microsilica Modified	Polymer modified, Micro-fiber reinforced	Polymer Modified, USDA Compliant, Flowable Underlayment	Portland Based	Portland Based	Wood Floor Compatible	High Impact & Abrasion Resistance, Iron Aggregate	100% Soli Low Modu
lumber of Components	One	One	Two	One	One	One	One	One	One	One	Two	One	One	One	Three	Three
xtendable	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No
rield Neat t³ (m³) Extended	.37 (.0105)	.42 (.0119)	.50 (.0142) .75 (.0212)	.42 (.0119)	.37 (.0105)	.37 (.0105)	.42 (.0119)	.40 (.0113)	.45 (.0127) .53 (.0150)	.48 (.0136) N/A	.42 (.0119)	.52 (.0147)	.52 (.0147)	.51 (.0145)	.35 (.0099) NA	.40 (.0113) NA
Лinimum Thickness, in. (mm)	1" (25.4)	3/4" (19)	1/4" (6)	1/2" (13)	1/4" (6)	1/4" (6)	1/2" (13)	3/8" (10)	1/16" (1.6)	Featheredge	Featheredge	Featheredge	Featheredge	Featheredge	1/8" (3)	1/4" (6)
Maximum Neat hickness n. (mm) Extended	6" (152) Full Depth	3" (76) 6" (152)	1.5" (38)	1.5" (38)	1" (25.4) 6" (152)	1" (25.4) 6" (152)	1" (25.4) 8" (203)	2" (51)	3/8" (10) 1.25" (32)	3/8" (10) N/A	1" (25.4) 2.5" (64)	1" (25.4)	1" (25.4) 3" (76)	1" (25.4)	2" (50) NA	3" (76) NA
Vorking Time, minutes*	150	60	30	20	15	45	5	30	35	30	45	15	15	15	75	25
nitial Set, hr:min*	3:00	2:10	:30	:20 - :30	:20	1:15	0:10	1:00	1:15	1:00	1:30	:45	:45	:45	NA	3:00
inal Set, hr:min*	4:00	3:50	:60	1:00	:30	2:00	0:15	2:30	3:00	2:30	4:00	1:00	1:15	1:15	NA	4:00
emperature Limitations	> 45°F (7°C)	> 40°F (4°C)	> 45°F (7°C)	> 35°F (2°C)	> 20°F (-6°C)	> 40°F (4°C)	> 0°F (-17°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)	> 40°F (4°C)	> 50°F (10°C)	> 50°F (10°
trength Gain PSI (MPa) 4 Hour 1 Day 7 Day Final	5,000 (35) 8,800 (61) 10,000 (69)	3,000 (21) 6,500 (45) 7,800 (54)	800 (5) 2,500 (17) 6,000 (41) 7,200 (50)	3,200 (22) 5,800 (40) 7,000 (48) 10,040 (69)	3,500 (24) 5,500 (38) 8,500 (59) 10,000 (69)	3,000 (21) 5,500 (38) 8,500 (59) 10,000 (69)	5,000 (35) 6,000 (41) 7,000 (48) 7,500 (52)	4,000 (28) 7,000 (48) 9,500 (66)	2,800 (19) 5,000 (35) 7,900 (55)	1,650 (11) 2,100 (14) 4,000 (28)	1,100 (8) 3,800 (26) 5,000 (35)	900 (7) 2,000 (14) 3,000 (21) 3,500 (24)	1,300 (9) 2,200 (15) 3,000 (21) 4,000 (27)	1,500 (10) 2,300 (16) 3,600 (25) 5,000 (34)	12,000 (83) 13,000 (90) 13,500 (93)	1,400 (10) 7,000 (49) 9,800 (68) 9,800 (68)
Compatible with Galvanic Anodes	✓	✓		✓				✓								
Valkway and Pavement Applications	✓		✓	√	✓	✓	✓	✓	✓	✓	V					
arking Garage Applications	✓	√	√	√	\checkmark	√	\checkmark	✓	√	√						✓
Commercial Flooring Applications	✓	✓	✓	\checkmark	\checkmark	✓		\checkmark	✓		V	\checkmark	\checkmark	\checkmark		✓
ndustrial Applications	√	√	√	√	✓	√	✓								√	√