

Flowcrete
for the world at your feet



EUCLID CHEMICAL



CONCRETE REPAIR SOLUTIONS

► A range of concrete repair solutions including those designed to patch repair old or damaged concrete, use on form and pour projects as well as resurfacing and smoothing.

www.flowcrete.co.uk/euclid-chemical

Concrete Repair Solutions

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.

In many instances, concrete repair projects must take place in fully operational industrial facilities where any downtime must be minimised to avoid any slow down to production.

The Euclid Chemical Company, represented by Flowcrete UK Ltd in the UK, offers a wide range of products available for horizontal, vertical and overhead applications including patch repairing old or damaged concrete, form and pour projects, resurfacing and smoothing.

Application Suitability



Structural Repairs



Cosmetic Repairs



Marine Repairs



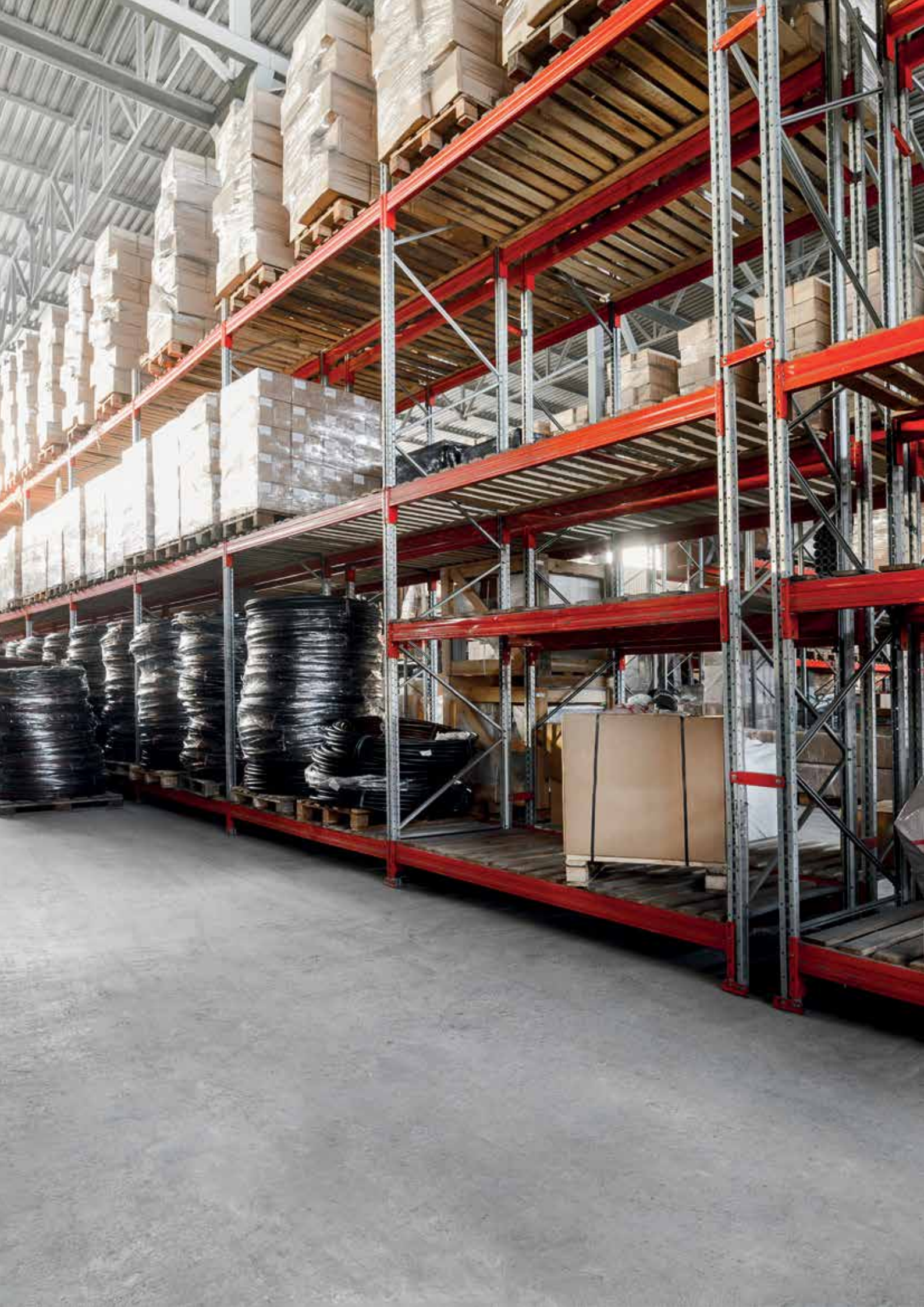
Patch Repair



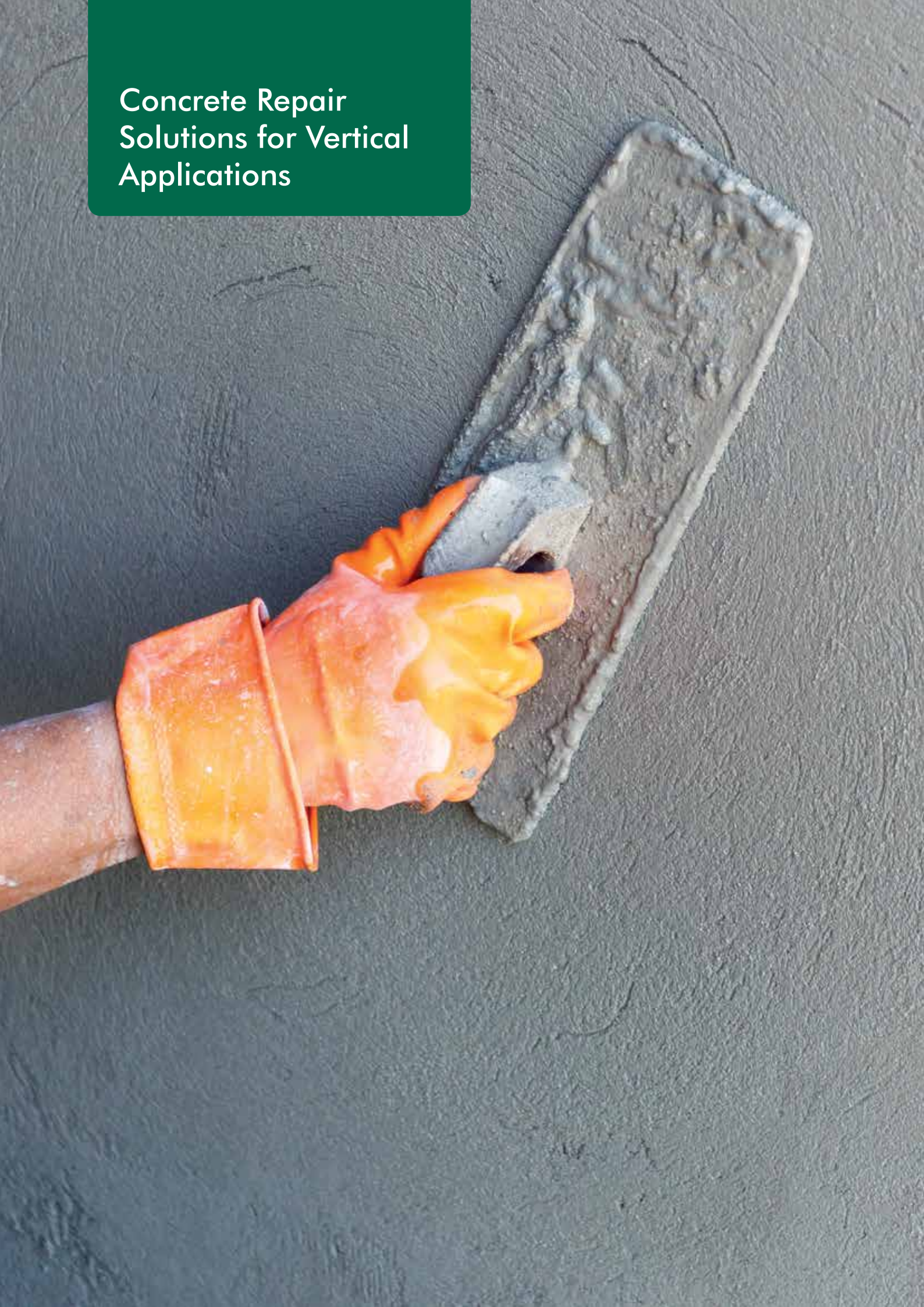
Vertical & Overhead Repair



Resurfacing



Concrete Repair Solutions for Vertical Applications



Cementitious Form & Pour / Pump Under Water

Euco PM

Thixotropic and Shrinkage Compensating

Single-component, cement based pumping mortar, blended from cements, fine aggregates and admixtures. Maximum grain size less than 1 mm.

Eucocrete

Microsilica Modified, Corrosion Inhibitor

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

Eucocrete Supreme

Corrosion Inhibitor, Latex & Microsilica Modified

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

Bonding Agents & Adhesives

Duralprep A.C.

Silica Fume Modified

A three-component bonding agent and anti-corrosion coating kit for reinforcing steel. Contains a water-based epoxy, combined with portland cement that can be used as a bonding agent for placing fresh concrete and repair mortars to existing concrete substrates.

Sprayable

Eucoshot

Silica Fume Modified

Single-component, silica fume modified, shotcrete repair product designed for application by dry shotcrete method (gunite) for interior or exterior repairs.

Euco Diamond Shot

Silica Fume Modified

A dry shotcrete mix that offers high early and ultimate strengths and offers higher resistance to hydrogen sulfide making it ideal for use in municipal wastewater projects. Dust generation and rebound are similar to wet shotcrete mixes.

Speed Crete Blue Line

Underwater Patching Material, Rapid Set

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

Cementitious Trowelable

Tammscrete

Polymer Modified, Smooth Consistency

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

Speed Crete Red Line

Fast Setting, Can be "Shaved" to Desired Shape

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

Corrosion Inhibitor, Polymer Modified

Single-component, polymer modified repair mortar that contains a migratory corrosion inhibitor. This easy to use material can be applied from featheredge to 75 mm per lift.

Vertical / Overhead Repair

Tamms Structural Mortar

Fibre Reinforced, Corrosion Inhibitor, Trowelable

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

EucoRepair V100

Corrosion Inhibitor, Polymer Modified, Fibre Reinforced

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

Vertical / Overhead Technical Profile

	Number of Components	Extendable	Yield (m ³)		Minimum Thickness (mm)	Maximum Thickness (mm)		Working Time (mins)*
			Neat	Extension		Neat	Extension	
Cementitious Form & Pour / Pump								
Euco PM	One		0.011	N/A	10	N/A	N/A	60
 Euocrete	One	•	0.0105	0.0130	25.4	152	Full	150
 Euocrete Supreme	One	•	0.0105	0.0130	25.4	152	Full	120
Bonding Agents & Adhesives								
 Duralprep A.C.	Three	•	3.8 – 14.2	N/A	N/A	N/A	N/A	30
Sprayable								
 Eucoshot	One		0.0119	N/A	25.4	152	N/A	180
 Euco Diamond Shot	One		*	*	12	150	N/A	45
Under Water								
Speedcrete Blue Line	One		0.0142	N/A	19	76	N/A	2–3
Cementitious Trowelable								
Tammscrete	One	•	0.0113	0.0130	Feather Edge	3	6	20
Speed Crete Red Line	One	•	0.0142	0.0130	3.2	51	102	5
Speed Crete PM	One		0.0142	N/A	Feather Edge	76	N/A	10
Vertical / Overhead Repair								
 EucoRepair V100	One	•	0.0127	0.0198	3.2	102	156	15
 Tamms Structural Mortar	One		0.0127	N/A	10	51	N/A	30

Initial Set (hr:min)*	Final Set (hr:min)*	Temperature Limitations	Strength Gain (PSI / MPa)				Galvanic Anodes	Structural Repairs	Cosmetic Repairs	Marine Repairs
			4 Hours	1 Day	7 Days	Final				
Cementitious Form & Pour / Pump										
4:00	4:30	> 5°C	—	30	50	70				
6:00	7:00	> 7°C	—	32	50	76		•	•	
2:10	3:50	> 4°C	—	35	61	69	•	•	•	
Bonding Agents & Adhesives										
1:00	1:30	> 7°C	—	—	28	31	•	•	•	•
Sprayable										
3:40	4:40	> 7°C	—	24	48	65	•	•		•
0.45	2:00	> 5°C	31	46	70	98	•	•	•	•
Under Water										
0:03—0:05	0:20	> Freezing	—	22	28	42		•		•
Cementitious Trowelable										
0:25	0:40	> 7°C	—	—	21	31			•	
0:08—0:10	0:20	> 7°C	—	18	28	39	•		•	
0:15	0:40	> 7°C	—	17	45	48	•	•	•	•
Vertical / Overhead Repair										
0:20	0:35	> 7°C	14	21	31	41	•	•	•	
1:00	2:00	> 7°C	—	22	43	59	•	•	•	•

Concrete Repair Solutions for Horizontal Applications

Cementitious Form & Pour / Pump

Eucocrete 🌿

Microsilica Modified, Corrosion Inhibitor

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

Eucocrete Supreme 🌿

Corrosion Inhibitor, Latex & Microsilica Modified

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

Cementitious Trowelable

Duraltop Flowable Mortar

Corrosion Inhibitor, Polymer Modified

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

Express Repair 🌿

Corrosion Inhibitor

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

VersaSpeed

High Early Strength, Quick Coat Time

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

VersaSpeed LS100 🌿

Rapid Hardening Repair Mortar

A single-component, rapid strength gaining repair mortar for horizontal repair projects under a fast-turnaround. Slower setting for extended workability.

Euco-Speed MP 🌿

Rapid Setting Magnesium Phosphate

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).

Concrete-Top Supreme 🌿

Corrosion Inhibitor, Latex & Microsilica Modified

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 9.5 – 50 mm.



Thin-Top Supreme

Corrosion Inhibitor, Latex & Microsilica Modified

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 1.6 to 10 mm.

Euco Re-Cover

Polymer Modified, Micro-fiber Reinforced

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

Horizontal Repair

TammsPatch II

Polymer Modified, USDA Compliant, Flowable Underlayment

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

Self-Levelling Underlayment

EucoFloor SL 160

Portland Based

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

Super Flo-Top

Portland Based

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

Wood Floor Compatible

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

Epoxy

Duralflex Fastpatch

100% Solids, Low Modulus

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

Flowfast F1 Mortar

3 Component Epoxy Mortar

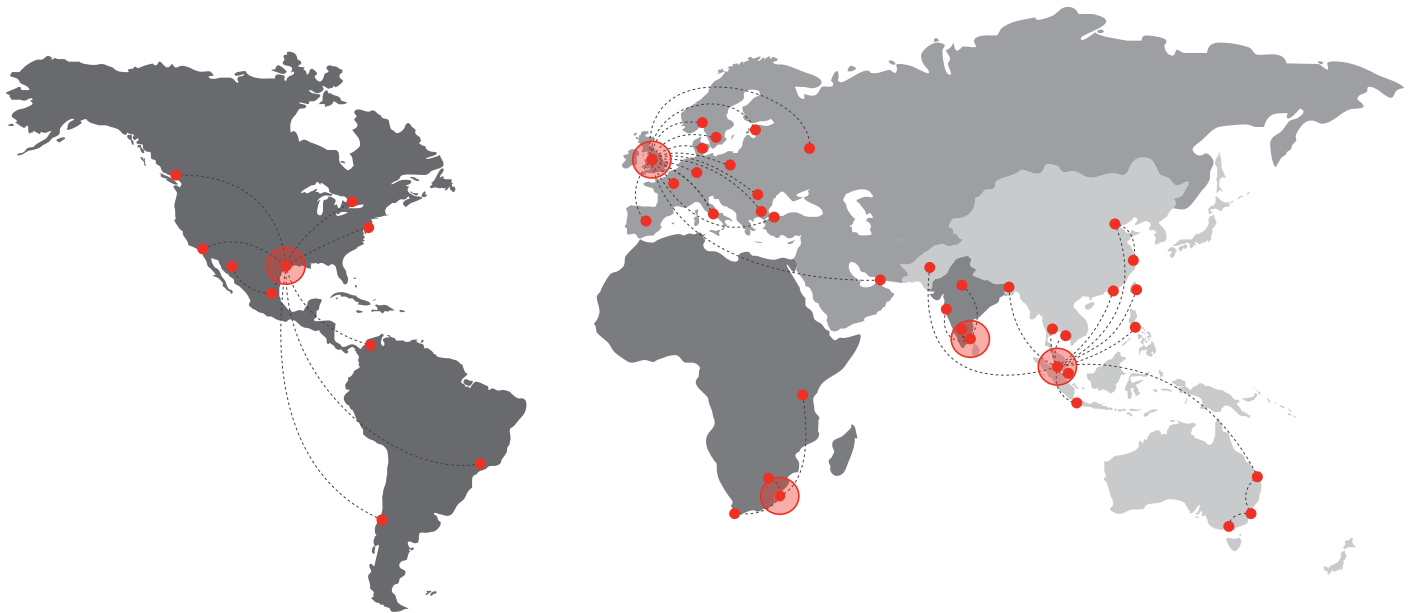
A practically odourless, solvent and Nonylphenol free product, used to repair damaged floors, to form coved skirtings, joint arises or as a thin layer topping underlayment for Flowcrete epoxy resin finishes.

Flowcrete
for the world at your feet

Horizontal Technical Profile

	Number of Components	Extendable	Yield (m ³)		Minimum Thickness (mm)	Maximum Thickness (mm)		Working Time (mins)*
			Neat	Extension		Neat	Extension	
Cementitious Form & Pour / Pump								
 Euocrete	One	•	0.0105	0.0130	25.4	152	Full Depth	150
 Euocrete Supreme	One	•	0.0105	0.0130	25.4	152	Full	120
Cementitious Trowelable								
Duraltop Flowable Mortar	Two	•	0.0142	0.0212	6	38	78	30
 Express Repair	One	•	0.0119	0.0212	13	38	78	20
VersaSpeed	One	•	0.0105	0.0147	5	25.4	152	15
 Versaspeed LS100	One	•	0.011	0.047	6	50	150	40
 Euco-Speed MP	One	•	0.0119	0.0161	13	25.4	203	5
 Concrete-top Supreme	One	•	0.0142	0.0130	10	51	152	30
 Thin-top Supreme	One	•	0.0142	0.0130	1.6	10	32	35
Euco Re-Cover	One		0.0142	0.0130	Feather Edge	10	N/A	30
Horizontal Repair								
 TammsPatch II	One	•	0.0142	0.0130	Feather Edge	25.4	64	45
Self-Levelling Underlayment								
EucoFloor SI 160	One	•	0.0142	0.0130	Feather Edge	25.4	64	15
Super Flo-Top	One	•	0.0142	0.0130	Feather Edge	25.4	76	15
Flo-Top	One	•	0.0142	0.0130	Feather Edge	25.4	76	15
Epoxy								
Duralflex Fastpatch	One		0.0142	0.0130	6	76	N/A	25
Flowfast F1 Mortar	Two		0.020		6	25		15

Initial Set (hr:min)*	Final Set (hr:min)*	Temperature Limitations	Strength Gain (PSI / MPa)				Galvanic Anodes	Walkways Pavements	Parking Garages	Commercial Applications	Industrial Applications
			4 Hours	1 Day	7 Day	Final					
Cementitious Form & Pour / Pump											
3:00	4:00	> 7°C	—	35	61	69	•	•	•	•	•
6:00	7:00	> 7°C	—	32	50	76		•	•		
Cementitious Trowelable											
0:30	0:60	> 7°C	5	17	41	50		•	•	•	•
0:20— 0:30	1:00	> 2°C	22	40	48	69	•	•	•	•	•
0:20	0:30	> -6°C	24	38	48	69		•	•	•	•
60	1:40	> 7°C	8.3	27.6	34.5	55		•	•	•	•
0:10	0:15	> -17°C	35	41	48	52		•	•		•
1:00	2:30	> 7°C	—	28	48	66	•	•	•	•	
1:15	3:00	> 7°C	—	19	35	55		•	•	•	
1:00	2:30	> 10°C	—	11	14	28		•	•		
Horizontal Repair											
1:30	4:00	> 4°C	—	8	26	35		•		•	
Self-Levelling Underlayment											
0:45	1:00	> 4°C	7	14	21	24				•	
0:45	1:15	> 4°C	9	15	21	24				•	
0:45	1:15	> 4°C	10	16	25	34				•	
Epoxy											
3:00	4:00	> 10°C	10	49	68	68			•	•	•
0:25	1:00	> 0°C				74.5		•	•	•	•



Flowcrete

World leader in seamless resin flooring solutions and other specialist coatings.

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