



CONCRETE CURE & SEAL

Concrete, although one of the most durable man-made building materials, is inherently porous, with a large number of air pockets. When concrete is not properly cured, its strength, durability, appearance and resistance to freeze-thaw damage will suffer.

Sealing concrete will prevent water and contaminants from soaking into the concrete causing damage by corroding the reinforcing steel in the slab. The surface will become a dustproof and easier to clean finish that will help prevent staining (if cleaned promptly) and enhance the concrete's abrasion and wear resistance properties. What's more, some concrete sealers can provide an additional shine to the surface, ideal for application on stamped, integrally coloured and dyed substrates.

The Euclid Chemical Company, represented by Tremco CPG across Asia Pacific, offers a range of penetrating reactive sealers designed to protect and beautify concrete floors in both industrial and commercial environments.

APPLICATION SUITABILITY



Warehouses & Distribution



Manufacturing



Transport & Airports



Retail Environments



Car Showrooms



Contemporary Office Design

PERFORMANCE ADVANTAGES

		ASTM C 309	ASTM C 1315	NCHRP 244	Non-Yellowing	LADCO, OTC, Maricopa County VOC Compliant	California (SCAQMD) VOC Compliant	USDA
SOLV	/ENT BASED CURE &	SEALS						
	Everclear M	•	•		•			•
WAT	ER BASED CURE & S	EALS						
Ą	Everclear VOX	•	•		•	•	•	•
	Aqua-Cure VOX	•				•		•
	Super Aqua-Cure VOX	•	•			•		•
	Eucocure VOX	•				•		•
PEN	ETRATING SEALERS							
Ŋ	Euco Diamond Hard				•	•	•	•
Ŋ	Ultrasil Li+				•	•	•	•
Ą	Eucosil				•	•	•	•
Ą	Surfhard				•	•	•	•
	Euco-Guard 100			•	•			•
	Baracade Silane 100 C			•	•	•		•
	Weather-Guard				•			•
	Baracade M.E.			•	•	•		•

Recoat

Foot Traffic

Wheeled Traffic

TECHNICAL PROFILE

ADHESION TO CONCRET	Έ
Excellent	
ALKALI RESISTANCE (48	HOUR EXPOSURE)
Excellent	
RESISTANCE TO YELLOWI	NG FROM UV EXPOSURE
Excellent	
SOLIDS CONTENT	
> 25%	
MOISTURE LOSS	
ASTM C 156	< 0.40 kg/m²
SPEED OF CURE	23°C / 50% RH
Dry to Touch	< 1 hour

4 to 24 hours

4 to 6 hours

6 to 10 hours

EVERCLEAR M



A clear, non-yellowing pure acrylic cure & seal that protects and enhances the appearance of concrete.

Everclear M is specially formulated to enhance the colour of stamped concrete, exposed aggregate, and coloured concrete pavers while providing protection against the damaging effects of traffic, weather, and de-icing salts.



Pure acrylic formulation ensures no yellowing and a more breathable seal



Enhances the appearance of coloured concrete



Harder and more durable than standard polymer blend cure & seals

EVERCLEAR VOX



A non-yellowing, water-based pure acrylic sealer for concrete with excellent blush resistance.

Everclear VOX dries to an attractive clear, matt finish, but a higher gloss can be achieved with additional coats.



Low odour



Excellent abrasion and blush resistance



Can be applied over previous coats of water- or solvent-based sealers

TECHNICAL PROFILE

VISCOSITY		
5 cps		
APPEARANCE		
Milky White (Wet), Crystal C	lear (Dry)	
SOLIDS CONTENT		
> 25%		
WEATHEROMETER CYC	LING (@100 HOURS)	
No yellowing or loss of glo	ss	
BLUSH RESISTANCE		
Excellent*		
SPEED OF CURE	23°C / 50% RH	
Dry to Touch	< 1 hour	
Foot Traffic	4 to 6 hours	
Wheeled Traffic	6 to 10 hours	

*Slight blushing is possible during the first one or two wetting and drying cycles after sealer application. Fully dried Everclear VOX is extremely blush resistant.



SOLIDS CONTENT	
15%	
MOISTURE LOSS	
ASTM C 156	< 0.55 kg/m²
SPEED OF CURE	23°C / 50% RH
Dry to Touch	1 to 2 hours
Recoat	2 to 4 hours
Foot Traffic	4 to 6 hours
Wheeled Traffic	6 to 10 hours

DID YOU KNOW?

Aqua-Cure VOX forms an efficient moisture barrier for optimum curing of concrete and seals both new and existing concrete surfaces to protect against the often harmful effects of weathering.

AQUA-CURE VOX



A water-based acrylic polymer curing and sealing compound.

Aqua-Cure VOX is suitable for use over new and old concrete and performs well on both interior and exterior surfaces. It enables fresh concrete to maintain adequate moisture, seals the surface, and provides an attractive sheen.



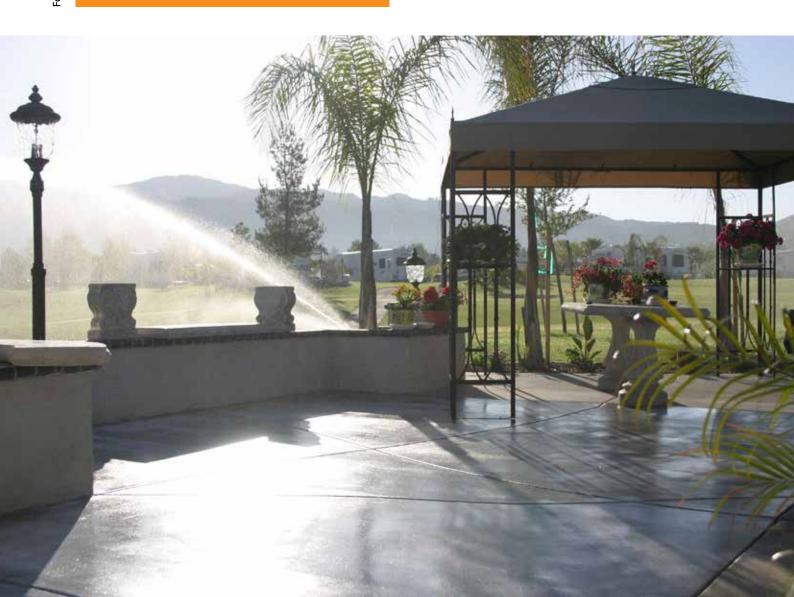
Dries to a clear transparent film that resists yellowing under UV exposure



An alternative to solvent-based materials



Increases durability by promoting proper cement hydration



SOLIDS CONTENT	
> 25%	
MOISTURE LOSS	
ASTM C 156	< 0.40 kg/m²
SPEED OF CURE	23°C / 50% RH
Dry to Touch	1 to 2 hours
Recoat	2 to 4 hours
Foot Traffic	4 to 6 hours
Wheeled Traffic	6 to 10 hours

DID YOU KNOW?

Super Aqua-Cure VOX may be placed on top of a previous coat of the same product within 2 to 4 hours of the first application. If a second coat is applied over 4 hours after the first, the first coat should be deglossed.

SUPER AQUA-CURE VOX



A high solids water based acrylic polymer curing & sealing compound.

Super Aqua-Cure VOX is suitable for use over new and old concrete and performs well on both interior and exterior surfaces. It enables fresh concrete to maintain adequate moisture, seals the surface, and provides an attractive sheen.



High solids content permits greater coverage and better durability



Good surface strength development helps eliminate dusting of new concrete



Can contribute to LEED points (VOC content <200 g/L)

EUCOCURE VOX



An economical water based acrylic curing and sealing compound.

Eucocure VOX assists in maintaining adequate moisture content while new concrete is curing, providing moderate protection against water penetration with a low sheen appearance.



Low odour



Can contribute to LEED points (VOC content 123 g/L)



Suitable for interior and exterior applications

TECHNICAL PROFILE

VISCUSITY	
5 to 15 cps	
SOLIDS CONTENT	
15%	
MOISTURE LOSS	
ASTM C 156	< 0.40 kg/m²
SPEED OF CURE	23°C / 50% RH
Dry to Touch	1 hour
Recoat	2 to 4 hours

DID YOU KNOW?

Heavy applications, applying in cool or cold weather, or prolonged exposure to moisture may cause this product to have a milky appearance. Dry conditions will allow the product to become clear again.

Full Traffic

TECHNICAL PROFILE

VOC CONTENT ≤5 g/L **ABRASION RESISTANCE** 30 mins: ~80% (Compared to untreated improvement concrete) 60 mins: ~20% improvement **COEFFICIENT OF FRICTION ASTM F 1679** Dry: 0.81 Wet: 0.72 LIQUID REPELLENCY: (RILEM METHOD 11.4) Untreated Concrete: 5 ml Water absorbed in Treated Concrete: 1 ml 24 hours **SPEED OF CURE** 21°C Light Traffic 4 to 6 hrs

24 hrs

EUCO DIAMOND HARD



A liquid densifier and sealer which penetrates, reacts and bonds within the surface to produce a harder, dustproof and liquid repellent surface.

Euco Diamond Hard provides an attractive, slip resistant sheen to concrete that never peels, fades or wears away.



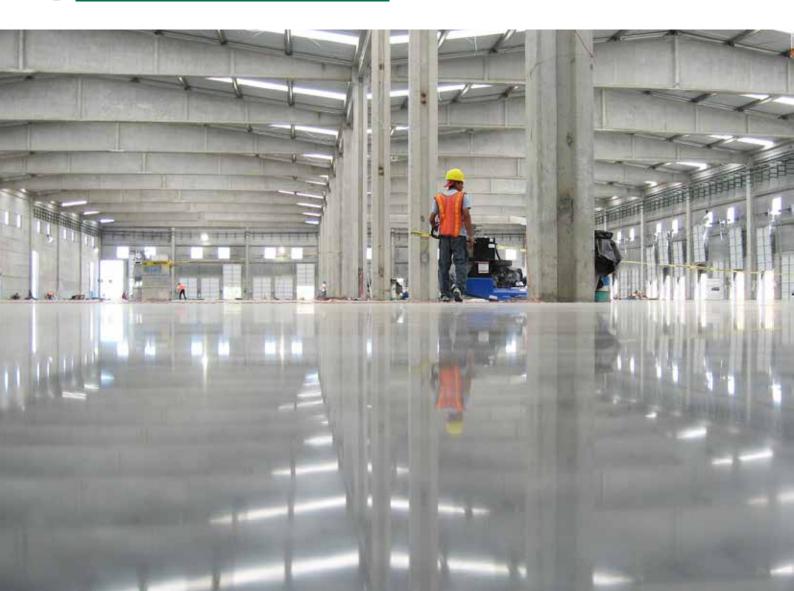
Reduces porosity and increases durability of the concrete surface

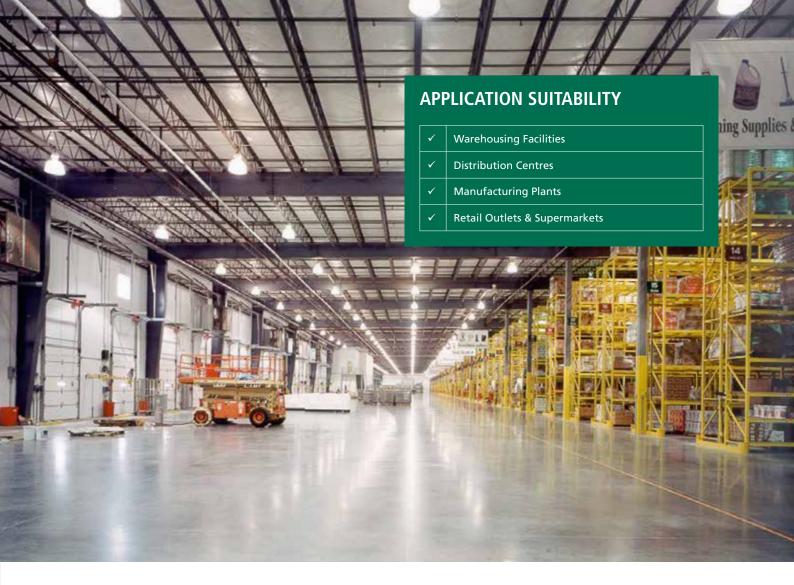


Minimises tyre marks and enables them to be more easily cleaned and removed

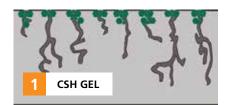


Can be applied quickly and easily to new or existing concrete

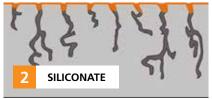




THE SCIENCE BEHIND EUCO DIAMOND HARD



The silicate in EUCO Diamond Hard reacts to form extremely hard crystals in the pores of concrete surfaces.



The siliconate in EUCO Diamond Hard also reacts to create a liquid-repellent seal on the concrete surface.



The synergistic activity of the silicate & siliconate blend in EUCO Diamond Hard seals and strengthens the concrete.

HOW DOES IT WORK?

The silicate compounds present in reactive sealers chemically react with soft calcium hydroxide (also known as portlandite) in the surface to produce a much harder calcium silicate hydrate (CSH) – the primary strength-providing portion of concrete paste. The siliconate also reacts with the concrete to form a hydrophobic polymer within the pores and on the concrete surface resulting in a strong, liquid repellent surface.

VOC CONTENT	
<5 g/L	
SPECIFIC GRAVITY	
1.10	
PH	
11.7	
SOLIDS / ACTIVE CONTE	NT
15%	
FREEZE POINT	
0°C	
DENSITY	
1.1 kg/L	
SPEED OF CURE:	21°C
Light Traffic	4 to 6 hrs

ULTRASIL LI+



A water-based lithium silicate solution used to densify, seal and dustproof concrete surfaces.

UltraSil Li+ penetrates and forms dense calcium silicate hydrate particles that block concrete pores, resulting in a more durable, easier to clean surface that never fades away.



Seals, densifies and dustproofs in one application



Permanent treatment that never peels off



Can contribute to LEED points (EQ Credit 4.2)

EUCOSIL



A reactive water-based sodium silicate sealer solution used to densify and dustproof concrete.

Eucosil introduces additional sodium silica that reacts with the excess calcium hydroxide to form more CSH becoming an integral part of the surface, making it denser and easier to maintain.



Seals, densifies and dustproofs in one application



Treated concrete resists penetration of water and many chemical substances



Water based formulation with no odour and low VOC content

TECHNICAL PROFILE

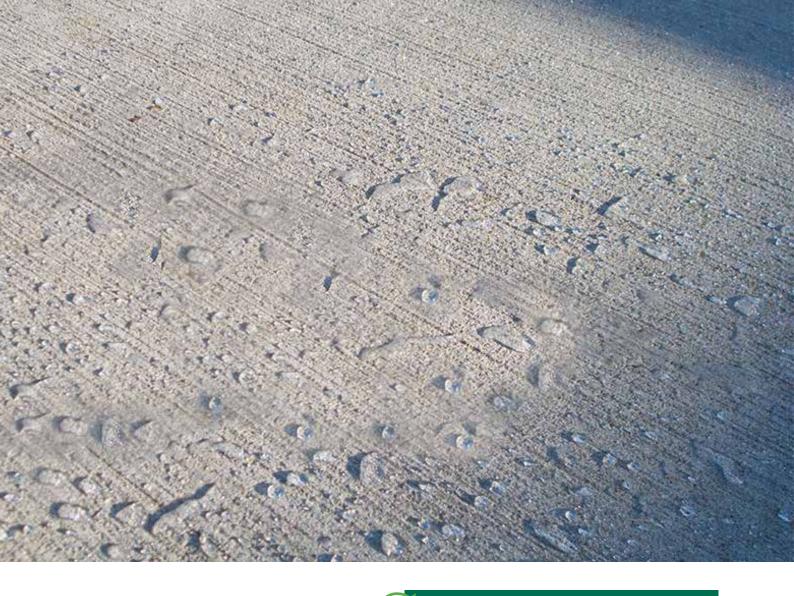
VOC CONTENT	
>5 g/L	
SPEED OF CURE:	21°C
Light Traffic	4 to 6 hrs
Full Traffic	24 hrs

DID YOU KNOW?

What makes silanes, siloxanes, and siliconates different from other coatings is the fact that they actually penetrate into the concrete to create a protective barrier.

Other sealers such as acrylic, epoxy, and polyurethanes are topical in nature. Which means they sit on the surface and form a protective film or coating.





SURFHARD



A water-based magnesium fluorosilicate solution that densifies and dustproofs concrete.

Surfhard reacts chemically with the alkaline materials in the concrete, strengthening weak, soft, or dusting surfaces and providing a degree of chemical resistance.



Prolongs floor life by densifying and dustproofing concrete surfaces



Resistant to acids, alkalies, oils and salts



Can contribute to LEED points

TECHNICAL PROFILE

VOC CONTENT	
<5 g/L	
SPEED OF CURE	21°C
Foot Traffic	4 to 6 hrs
Wheeled Traffic	4 hrs

APPEARANCE

Surfhard is a clear liquid that does not change the colour or appearance of concrete, however, immediately after application, the colour of the treated concrete may initially appear darker.

As Surfhard cures and dries out, the treated concrete will have little change in appearance. Treated concrete will slightly bead water and other liquids.

FLASH POINT	
41°C	
VOC CONTENT	
730 g/L	
SOLIDS CONTENT	
10%	
SPEED OF CURE	23°C / 50% RH
Foot Traffic	4 to 6 hours
Wheeled Traffic	10 to 12 hours

EUCO-GUARD 100



A deep penetrating siloxane sealer designed to protect concrete structures and surfaces against weathering and freeze damage.

Euco-Guard 100 reacts with either new or old concrete to provide a highly effective chloride screen and water barrier.



Blocks pores and capillaries for outstanding water repellency



Protects reinforcing steel against the corrosion from chlorides and moisture



Provides a low cost protection system over the life of a structure

DID YOU KNOW?

Euco-Guard 100 is a clear, solvent based material that has virtually no effect on the appearance of dry concrete once dry. Treated concrete will cause water to bead on the surface.

BARACADE SILANE 100 C



A breathable, colourless, nonyellowing, deep penetrating water repellent for concrete and masonry.

Baracade Silane 100 C produces a hydrophobic treatment to reduce water absorption, protecting concrete, block, stone and brick against weather damage and contaminants.



Reduces water absorption



Protects against air-borne contaminants, such as acid rain



Protects against damaging effects of water intrusion & deicing chemicals

TECHNICAL PROFILE

FLASH POINT
63°C

VOC CONTENT
248 g/L

UV RESISTANCE

Excellent

ABRASION RESISTANCE

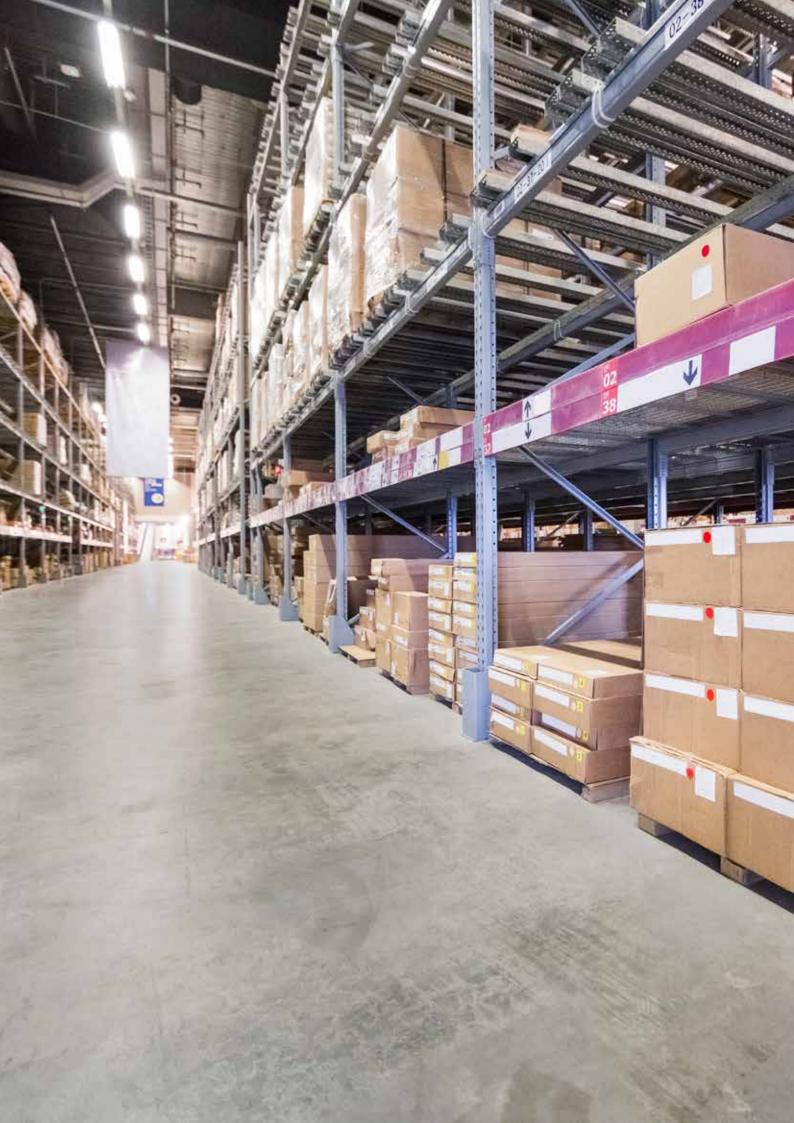
Excellent

AVERAGE DEPTH OF PENETRATION

5mm

DID YOU KNOW?

100% silane formulations exhibit low volatility and higher coverage rates than solvent based silane materials.



FLASH POINT	
40°C	
SOLIDS CONTENT	
5%	
VOC CONTENT	
749 g/L	
WATER ABSORPTION	
ASTM C 67 (multi- celled brick raked face, 24 hr immersion)	1.1 kg/L
SPEED OF CURE	21°C
Drying Time	4 to 6 hrs
Traffic	6 to 8 hours

WEATHER-GUARD



A siloxane penetrating sealer that protects concrete and masonry surfaces from weathering.

Weather-Guard penetrates the surface pores and reacts chemically to provide a barrier against the effects of freeze/thaw cycling, precipitation, acid rain, efflorescence, and dust/dirt degradation.



Preserves a natural appearance without membrane build-up



Allows surfaces to breathe while providing high water repellency



Easy to apply requiring only low pressure spraying equipment

BARACADE M.E.



An oligomeric alkyl alkoxy siloxane concentrate to repel water without altering the appearance or texture of the treated concrete surface.

Baracade M.E. is a breathable material that seals out moisture, reduces efflorescence and minimises the damaging effects of freeze-thaw cycles.



Suitable for vertical and horizontal applications depending on dilution



Improves resistance to airborne dirt, smog and other air pollutants



Non-staining, colourless material that doesn't alter the treated surface

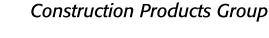
TECHNICAL PROFILE

FLASH POINT

Of concentrate	25°C
After Dilution	None
SOLIDS CONTENT	
Diluted at 1:9	10%
Diluted at 1:4	18%
APPEARANCE	
Pale Yellow (Wet), Clea	ar (Dry)
WATER PERMEANC	E
ASTM E 514 Diluted at 1:9	Passes
UV RESISTANCE	
Excellent	
ABRASION RESISTA	NCE
Excellent	

For a full Technical Profile, contact your local Technical Department.









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