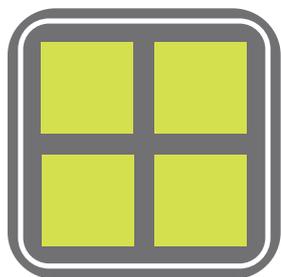




**PROTECTION
FOR ENGINEERED
CONCRETE STRUCTURES**



DRYTREAT

World leading impregnating sealers™

World Leading Protection for Engineered Concrete

The Ultimate Hydrophobic Barrier

Dry-Treat™ produces superior modified silane sealers for protecting exposed structural concrete including bridges, wharves, highways, high rise buildings, panels and rendering. Silane based technology has been proven best practice protection across the globe in some of the harshest salt and freeze-thaw environments for decades.

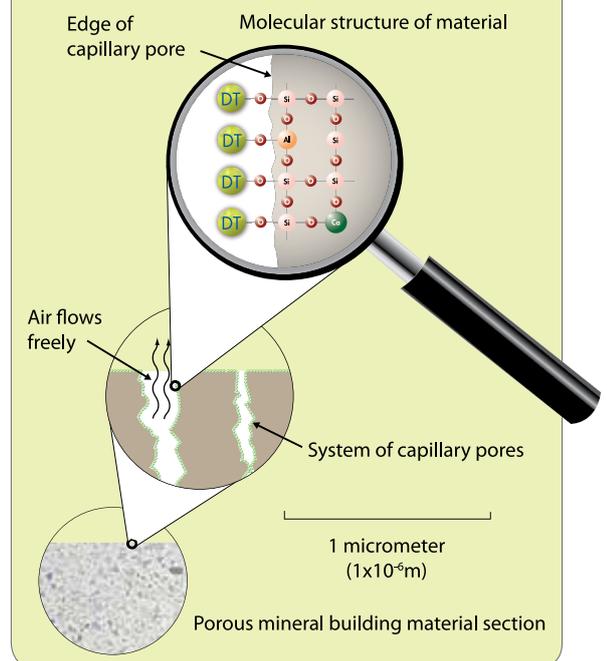
Dry-Treat™ silanes achieve maximum penetration into the pore structure of the concrete, lining the pores to create a deep hydrophobic (water repellent) barrier. Dry-Treat™ concrete sealers form a full chemical bond inside the pores, becoming permanently part of the molecular structure of the material.

Dry-Treat's deep hydrophobic barrier protects against ingress of water and dissolved salts, significantly reducing concrete spalling, corrosion of steel reinforcement and alkali silica reactions.

Typical Applications

	CONCREME™	DRY-TREAT 100N™	DRY-TREAT 100NCI™	DRY-TREAT 40SK™
Bridges	✓	✓	✓	
Wharves and Jetties	✓	✓	✓	
Highways	✓	✓	✓	
High rise buildings	✓	✓	✓	
Rail bridge decks	✓	✓	✓	✓
Car parks	✓	✓	✓	✓
Swimming pool surrounds				✓
Rendering				✓
Concrete paving and driveways				✓
Masonry				✓
Damp course injection				✓

Concrete acts like a hard sponge which absorbs damaging liquids and aggressive salts

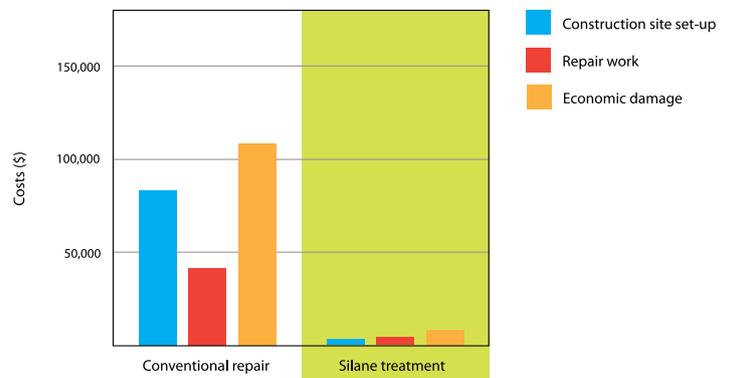


Low Cost



- Dry-Treat™ silane sealers require minimal equipment and time to apply.
- Preventative maintenance is less costly than repair or rebuilding. Treating a concrete structure with high quality silanes as a preventative measure usually costs 10%, or less, of the cost of remedial repair/rebuilding.
- A percentage of maintenance costs are due to service interruptions—i.e. closing all or part of a structure for maintenance work. The extended lifespan of Dry-Treat's concrete sealer range mean re-application is only necessary every 15-30 years so there is zero or minimal disruption to normal activity.
- Silanes are cost-effective, world best practice technology for protecting concrete, proven to extend the life of concrete structures by up to 107 years. They are specified by government departments and private enterprise across Europe, Asia Pacific, USA and Canada.

Silanes – Economic Aspects



Why Seal?

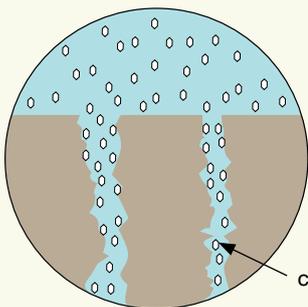
Spalling of Concrete Structures

Salt and freeze-thaw spalling:

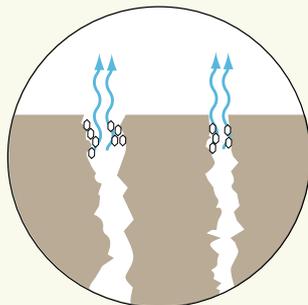
The spalling of concrete can be caused by a buildup of salt crystals or freeze-thaw action. These processes begin at a micro level, opening up the material little by little which allows greater and greater water ingress into the structure. This process accelerates over time until extensive spalling occurs and water has an easy pathway to the reinforcing steel which oxidises very quickly.



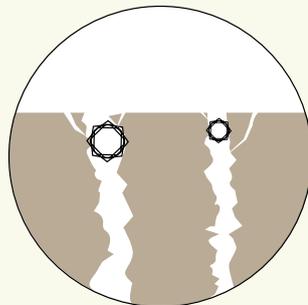
Salt Spalling:



Concrete has millions of interconnected pores/capillaries which absorb water and dissolved salts.

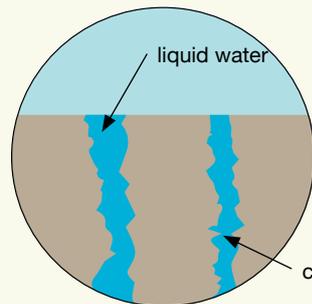


Water evaporates leaving salt crystals behind below the surface.

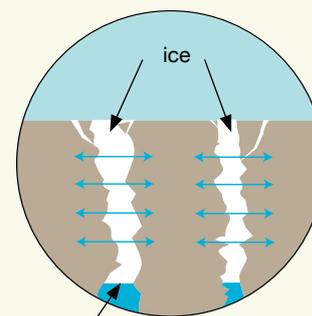


As more salt water moves through the material, the salt crystals grow. When this happens close to the surface microscopic pieces of concrete break off (spall). This process continues and accelerates until the surface is visibly and deeply damaged. Spalling of the concrete leaves the underlying steel reinforcements more exposed to water and vulnerable to corrosion.

Freeze-thaw spalling:



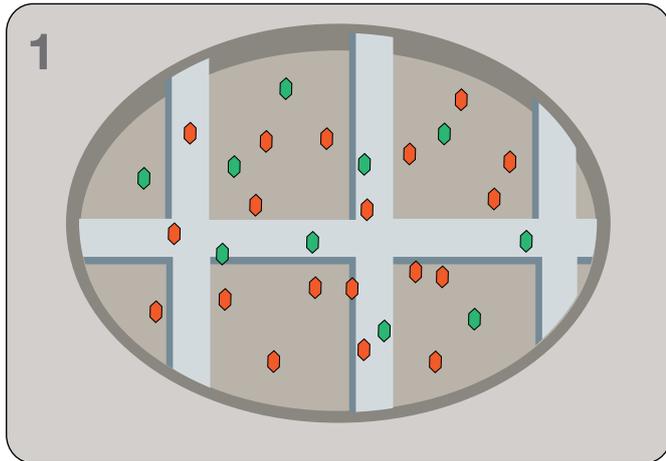
Concrete has millions of interconnected pores/capillaries which absorb water and dissolved salts.



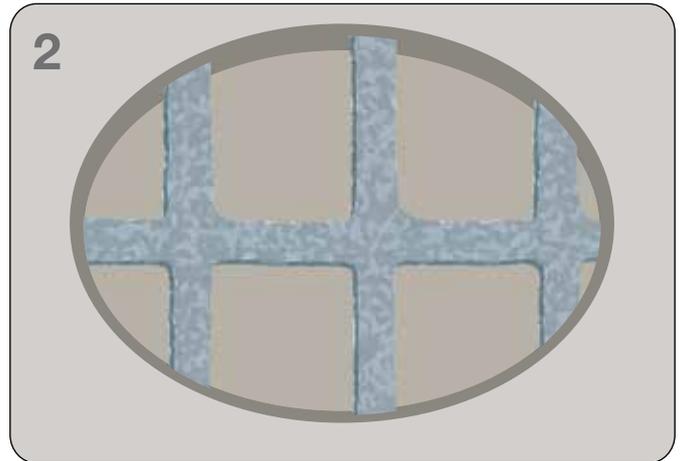
Water in the pores expands as it freezes. When this happens close to the surface, microscopic pieces of concrete are broken off (spall), until the surface is visibly and deeply damaged. Spalling of the concrete leaves the underlying steel reinforcements more exposed and vulnerable to corrosion.

water pressure 200 KPa

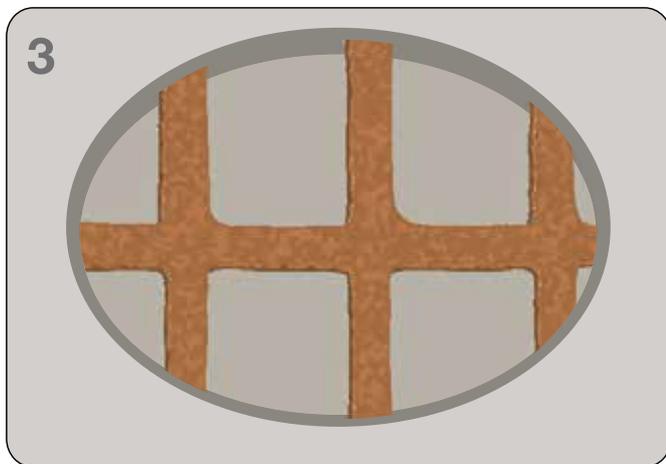
Corrosion of Steel Reinforcement



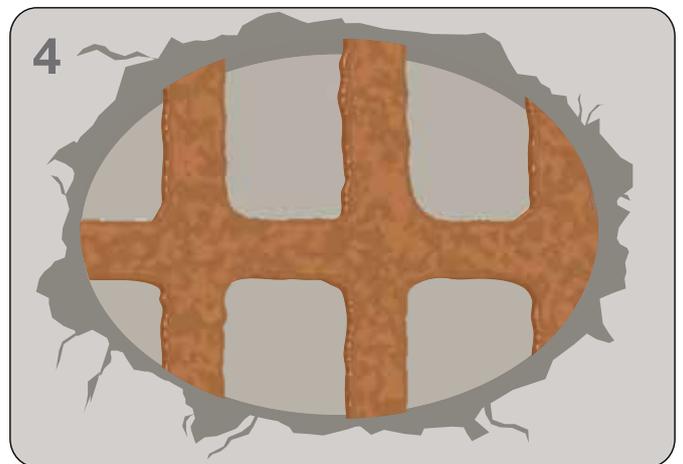
1
Dissolved salts (chloride ions) penetrate and move through the pore structure of the concrete and come into contact with the steel reinforcement (rebar).



2
Pitting (rusting) of rebar starts.



3
Rebar continues to rust (oxidise) from contact with salt water.



4
As rust builds up the steel reinforcing bars swell, putting pressure on the concrete cover. At the same time the concrete cover has been weakened by spalling and the pressure of the expanding rust can cause whole sections of the cover to break off. This is expensive to repair and the steel cannot be left exposed or the integrity of the structure will be threatened.



Structural Corrosion:

Swelling of steel reinforcement due to rust buildup has broken away the concrete cover, exposing the steel and making it even more vulnerable to corrosion, threatening the integrity of the entire structure.

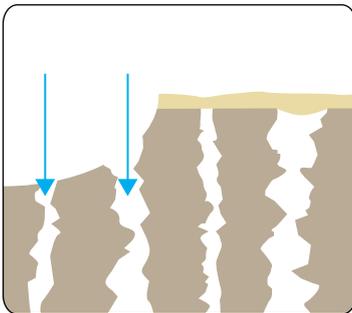
DRY-TREAT™ Silane Technology

Three Reasons Why Silanes Provide World Leading Protection

- 1. Depth of Penetration:** Dry-Treat™ silanes penetrate deeper into the pore structure so UV radiation, traffic and surface damage will not compromise the protection. This creates the ultimate hydrophobic barrier, providing premium protection against water and chloride ion ingress, and consequent concrete spalling and rebar corrosion.
- 2. Permanent Chemical Bond:** Dry-Treat's silane molecules chemically bond inside the pore structure becoming part of the molecular structure of the concrete, giving it the maximum lifespan. The molecules do not block the pores so harmful moisture in the subsurface can escape as vapour.
- 3. Resistance to Alkalinity:** Concrete is highly alkaline. Many sealers break down in a constant alkaline environment but Dry-Treat's silanes have the highest alkaline resistance.

Dry-Treat™ Sealers vs other sealers

Topical Coatings



If surface damage occurs there is no protection from water ingress as topical coatings do not penetrate into the pores.

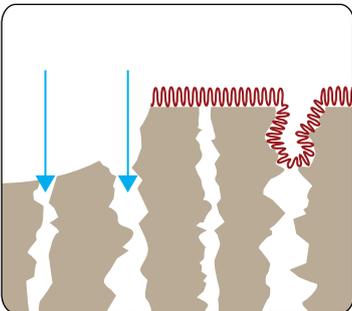
Pros:

- Topical coatings provide excellent protection from water ingress for a limited time, while intact.

Cons:

- Topical coatings sit on the surface totally exposed with little penetration into the pores. They wear, crack and peel easily when exposed to UV radiation, weathering, alkalinity and changes in temperature.
- The smallest break in the coating compromises the whole structure, allowing water ingress.
- Topical coatings are not breathable so water which does get into the concrete cannot evaporate and escape.
- Once damaged, the coating must be completely stripped off and re-applied to the surface which is time consuming and expensive.

Other Impregnators



If surface damage occurs there is no protection from water ingress as fluoropolymers, older silicones and siloxane impregnators have little penetration into the pores.

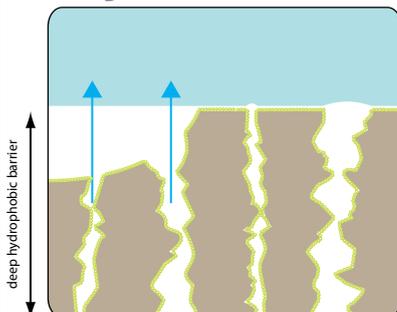
Pros:

- Modern fluoropolymers and older silicones and siloxane impregnators are good water repellents.
- These sealers are also partially breathable, allowing some water to escape as vapour from the concrete.

Cons:

- These impregnators have a significantly larger molecule size than Dry-Treat™ silanes, so do not penetrate deeply enough and are easily broken down by UV radiation, weathering and traffic. The sealer's depth of penetration is crucial for longevity, as 45 MPA concrete can erode at a rate of 1mm per 7 years.

Dry-Treat™ Silanes



Due to the superior depth of penetration, Dry-Treat™ silanes still repel water even if the surface has been physically damaged as the impregnator permanently bonds to pore structure.

- Dry-Treat™ silane molecules are over 400 times smaller than other impregnators. They penetrate much deeper into the pore structure, lining the pores and chemically bonding to the molecular matrix of the concrete.
- Dry-Treat's deep hydrophobic barrier is not affected by surface wear, weathering or UV radiation and provides effective protection for at least 15 years.
- Concrete treated with Dry-Treat™ silanes retains maximum breathability (approximately 97% or higher) so water vapour is able to escape freely, preventing a buildup of harmful moisture inside concrete structures.
- Dry-Treat™ silanes are highly alkaline resistant, and do not break down in the naturally alkaline environment of concrete.

DRY-TREAT™ Concrete Sealer Range

Range Summary

CONCREME™	100N™	100N CI™	40SK™
Deep, permanent, water-repelling silane impregnator Ultra Low VOC	Deep, permanent, water repelling silane impregnator	Deep, permanent, water-repelling silane impregnator Plus corrosion inhibitor	Deep, permanent, water-repelling silane impregnator Plus consolidator Low VOC
Recommended Uses:			Recommended Uses:
Structural concrete including: <ul style="list-style-type: none"> • Bridges • Wharves and jetties • Highways • Rail bridge decks • High rise structures • Car parks 			<ul style="list-style-type: none"> • Rendering • Concrete panels • Concrete paving and driveways • Car parks • Swimming pool surrounds Dry-Treat 40SK™ can also be used for: <ul style="list-style-type: none"> • Softer more porous natural stones in salt and freeze-thaw environments. • Damp course injections • Brick • Concrete blockwork • Stone blockwork walls
SAFETY			
Dry-Treat™ concrete sealers only use alkoxy/ethoxy silanes which emit alcohol (ethanol) as they react and bond with the concrete. Many other silanes on the market emit methanol (or other toxic gases) which can not only cause blindness and death but is estimated to be a 25 times more harmful VOC to the atmosphere than pure ethanol.			

	CONCREME™	DRY-TREAT 100N™ & 100N CI™	DRY-TREAT 40SK™	Topical Coatings	Common Impregnators (silicones, siloxanes, fluorocarbons, acrylics)
Low VOC - SCAQMD compliant and EU compliant	✓	✗	✓	Some are, but affects performance	Some are, but affects performance
Low VOC - LEED compliant	✓	✗	✓	Some are, but affects performance	Some are, but affects performance
Not affected by physical wear and tear	✓	✓	✓	✗	✗
Not affected by UV radiation	✓	✓	✓	✗	✗
Sealer not damaged by surface damage to concrete	✓	✓	✓	✗	✗
Lifespan	15+ years	30+ years	15+ years	1-4 years	1-4 years
Coverage per quart / litre	30sq ft (3sq m)	16 sq ft (1.6sq m)	5-40sq ft (0.5-4sq m)	N/A - re-apply 5 to 20 times in 20 years	N/A - re-apply 5 to 20 times in 20 years

Specification and Application

Supporting materials and detailed application procedures and training are available on request.



Superior Green Protection

- CONCRÈME™ is the world's first effective ultra low VOC silane for premium protection of engineered concrete and masonry surfaces. The deep penetrating, permanent water-repelling sealer protects engineering concrete from damage caused by water and water-borne chloride ion salts.
- CONCRÈME™ exceeds the world's leading VOC (carbon / greenhouse gas emission) standards:
 1. SCAQMD (South Coast Air Quality Management District of California, USA) – the world's most stringent VOC standard for concrete treatments.
 2. LEED (Leadership in Energy and Environmental Design) - USA, World and UK Green Building Council's VOC compliance standard for protective coatings.
 3. European Union VOC Directives 2004/42/CE and 1999/13/EC
 4. Environmental Protection Department Hong Kong SAR Government 2007 Regulations (same as SCAQMD standard).

Typical Applications

CONCRÈME™ is suitable for a wide variety of applications, including marine infrastructure (such as wharves and jetties), highways and rail bridge decks, building facades and car parks. It is an ideal product for the preservation of infrastructure.

Benefits

- Superior water repellency, protects from ingress of water and dissolved salts, consequent surface damage and corrosion of internal steel reinforcement
- Protects from salt spalling and freeze-thaw spalling
- Protects against rust stains and lime leaching
- Maintains original look and slip resistance of treated surface
- Simple, single coat application
- Non-drip cream applies equally well to vertical or inverted surfaces
- Fully breathable – moisture can escape from inside the material by evaporation, preventing corrosive moisture buildup
- Highly alkaline resistant – won't break down from contact with high alkaline cement-based materials or strong alkaline cleaners
- Cream protects the silanes from evaporation, giving them maximum time to penetrate into the pores
- Seals hairline cracks up to 0.012 in. (0.3mm) and prevents water ingress
- Suitable to treat surfaces in contact with potable water
- Can be applied to surfaces previously treated with a fully breathable impregnator
- Is not a surface coating, and will not crack, peel or deteriorate under UV light
- Ultra Low VOC – less than 100 grams per litre.

How to Use

1. ALWAYS TEST PRODUCT ON A SMALL AREA FIRST and allow a 24-hour cure time to determine the ease of application and desired results.
2. Surfaces to be treated must be dry, clean and free of residues, and surface temperature between 40 - 95°F (5 - 35°C).
3. Generously coat the surface with an even layer of CONCRÈME™ using a foam roller, brush, low pressure sprayer or similar. Estimated application rate: one quart per 30 sq. feet (one litre per 3 sq. metres) depending on surface absorption and depth of impregnation required. One coat is usually sufficient but a second coat may be applied at any time once the surface becomes touch dry.
4. Use water to clean equipment.
5. Avoid moisture contact with the surface for a minimum of 12 hours after application.

Typical performance data for CONCRÈME™ on concrete:

- Reduction in salt water uptake of approx 79% after 72 hours fully immersed in salt water (Stringent world best practice NHCRP 244 cube test)
- Alkali resistance to pH14
- Typical depth of effective penetration: 0.12 to 0.56 in. / 3-14 mm
- Typical service life: 15+ years (based on surface abrasion rate of 1mm per 7 years)

Warranty:

The treatment is considered permanent and A 15 YEAR PERFORMANCE WARRANTY is offered when applied by a level 4 Dry-Treat Accredited Applicator following our written instructions and site treated samples tested by us.

Application Rates:

Total Application rate is approximately one quart per 30 sq. feet (one litre per 3 sq. metres).

Pack size:

2.5 gallon (9.46 Litre) pails. Complies with Occupational, Health and Safety Regulations carry weight thresholds.

VOC:

Less than 100 grams per Litre.

Safety:

Dry-Treat™ concrete sealers only use alkoxy/ethoxy silanes which emit alcohol (ethanol) as they react and bond with the concrete. Many other silanes on the market emit methanol (or other toxic gases) which can not only cause blindness and death but is estimated to be a 25 times more harmful VOC to the atmosphere than pure ethanol.

Precautions:

- Do not take internally.
- Apply when surface temperature is between 5 and 35 C° (40 to 95 F°).
- Avoid moisture contact with the surface for 6 hours after application.
- Protect surrounding areas from over spray
- Keep away from drains, plants, water and soil.
- Use only in well-ventilated areas.
- Use a positive pressure respirator if ventilation is inadequate.
- Wear suitable solvent-resistant gloves, protective clothing, safety goggles and an organic vapour respirator during application.
- Avoid applying in windy conditions.
- Wash hands thoroughly.

First Aid:

If swallowed, give a glass of water and contact a physician. If skin contact occurs remove contaminated clothing and wash skin thoroughly. If irritation persists, contact a physician. If in eyes, hold open, flood with water for at least 15 minutes and contact a physician. If vapors are inhaled, relocate to fresh air. If symptoms persist contact a physician.

Accidents:

Spillage – Take up mechanically or with absorbent material such as sand, earth or vermiculite. Remove all ignition sources.

Limitations:

CONCRÈME™ should be used undiluted and is only suitable for exposed surfaces that are not subjected to long-term water pressure.

Storage:

Use product within 12 months of purchase. Keep container tightly sealed, in a cool well-ventilated place. Product is freeze-thaw stable.

DRY-TREAT 100N™

DRY-TREAT 100N™ is a deep penetrating, permanent water-repelling sealer that protects engineering concrete from damage caused by water and water-borne chloride ion salts. Exposed surfaces become easier to clean, maintain and keep looking good for longer. DRY-TREAT 100N provides lasting protection for engineering concrete.

Typical Applications

DRY-TREAT 100N™ is suitable for a wide variety of applications, including marine infrastructure (such as bridges, wharves and jetties), building facades, car parks and highways. It is the ideal preventive maintenance measure to maintain the condition of a concrete structure by protecting it from deterioration or slowing down the rate of deterioration.

Benefits

- DRY-TREAT 100N™ is able to repel water and water-borne chloride ion salts (from de-icing salts and sea water)
- Non film-forming
- Able to work without changing the appearance of the surface - keeps the original look
- Able to greatly reduce water uptake and minimize freeze thaw spalling and salt spalling
- An excellent chloride ion salt screen by 98 per cent - ideal for marine and pool areas
- Highly water vapour permeable - able to breathe so there is no build-up of subsurface moisture allowing it dry out
- Deeply penetrating - protecting against weathering and wearing;
- Solvent free - 100 per cent active ingredient
- Very alkali resistant - won't breakdown in contact with cement based materials
- Able to seal hairline cracks up to 0.3 mm (0.012 in.),
- Retards reinforcement corrosion (even in carbonated concrete), reduces alkali aggregate reactions and does not flake or peel.
- The treatment can extend the service life of reinforced concrete by up to 107 years.

Typical performance data for DRY-TREAT 100N™ on concrete:

- Reduction in salt water uptake of approximately 98% after 72 hours fully immersed in salt water (Stringent world best practice NHCRP 244 cube test)
- Alkali resistance to pH14
- Typical depth of effective penetration: 0.35 to 1.2 in. /9-30 mm
- Typical service life: 30+ years (based on surface abrasion rate of 1mm per 7 years)

How to Use

1. ALWAYS TEST PRODUCT ON A SMALL AREA FIRST and allow a 24 hour cure time to determine the ease of application and desired results.
2. Ensure surfaces to be treated are dry, clean and free of residues.
3. Product is to be applied without thinning.
4. Generously saturate the surface with product using a low-pressure hand spray, a clean brush, or similar. Surface should have a mirror-like "wet" look for 3-5 seconds. Avoid contact with surrounding areas.
5. After a minimum of 6 hours, repeat Step 4. Total application rate is approximately one quart per 16 sq. feet (one litre per 1.67 sq. metres) depending on absorption.
6. Allow 10 minutes for product to penetrate surface then polish surface with a clean white dry cloth to remove excess product.
7. Clean equipment with methylated spirits.
8. Sealer will not prevent surface etching or wear and may lighten or darken some surfaces.

Warranty:

The treatment is considered permanent and A 30-YEAR PERFORMANCE WARRANTY is offered when applied by an Level 4 Dry-Treat Accredited Applicator following our written instructions and site treated samples tested by us.

Application Rates:

Total application rate is approximately one quart per 16 sq. feet (one litre per 1.67 sq. metres).

Active Content:

Greater than 99 per cent active silane. It complies with UK Highways Agency BD 43/03 "The Impregnation of Reinforced and Pre-stressed Concrete Highway Structures Using Hydrophobic Pore-Lining Impregnants" and BS EN 1504-2:2004 "Products and Systems for the Protection and Repair of Concrete Structures".

Pack Size:

5 gallon (20 litre) and 50 gallon (200 litre) steel drums.

VOC:

390 grams per Litre.

Safety:

Dry-Treat™ concrete sealers only use alkoxy/ethoxy silanes which emit alcohol (ethanol) as they react and bond with the concrete. Many other silanes on the market emit methanol (or other toxic gases) which can not only cause blindness and death but is estimated to be a 25 times more harmful VOC to the atmosphere than pure ethanol.

Precautions:

- Do not take internally.
- Apply when surface temperature is between 5 and 35 C° (40 to 95 F°).
- Avoid moisture contact with the surface for 6 hours after application.
- Protect surrounding areas from over spray
- Keep away from drains, plants, water and soil.
- Use only in well-ventilated areas.
- Use a positive pressure respirator if ventilation is inadequate.
- Wear suitable solvent-resistant gloves, protective clothing, safety goggles and an organic vapour respirator during application.
- Avoid applying in windy conditions.
- Wash hands thoroughly.

First Aid:

If swallowed, give a glass of water and contact a physician. If skin contact occurs remove contaminated clothing and wash skin thoroughly. If irritation persists, contact a physician. If in eyes, hold open, flood with water for at least 15 minutes and contact a physician. If vapors are inhaled, relocate to fresh air. If symptoms persist contact a physician.

Accidents:

Spillage – Take up mechanically or with absorbent material such as sand, earth or vermiculite. Remove all ignition sources.

Limitations:

DRY-TREAT 100N™ should be used undiluted and is only suitable for exposed surfaces that are not subjected to long-term water pressure.

Storage:

Use product within 12 months of purchase. Keep container tightly sealed, in a cool well-ventilated place. Product is freeze-thaw stable.

Reference sites

CAMBODIA

Sihanoukville Jetty

FIJI

Fiji Telecom

Ganilau Office Block, Fiji

Queens Wharf

Ports Authority of Fiji (10,000 sq m)

Muaiwala Jetty

HONG KONG

Siu Hong Station, KCR In-situ concrete Route 8 Ngong Sheun Chau Viaduct - HK Dept of Highways Stone Cutter Bridge Deep Bay Project

INDONESIA

Power Station, ABB, Selatan

PAPUA NEW GUINEA

Daru Wharf

Port Moresby Port

Madang Port

Lae Jetty, Morobe Province

Kawieng Fish Wharf, New Ireland

SINGAPORE

Changi Wharf, Department of Defence (28,000 sq m).

Extension of PSA International Terminal

Tuas Power Station Fuel Oil Unloading Jetty

Tanjong Rhu Suspension Bridge

Senoko Fish Markets (SSR supplied material)

Cable Car Tower (SSR supplied material)

Pulau Seraya Bridge (SSR supplied material)

Shell Ular Bridge (SSR supplied material)

VANUATU

Port Villa

AUSTRALIA

NSW

Sydney Opera House, Australia (3,000 sq m)

Anzac Bridge, Sydney, Australia (5,000 sq m)

International Terminal, Sydney Airport

ANZ Banking Corporation, Sydney

St Mary's Sewerage Treatment works

Bronte Pavilion

Campbelltown Bridge, Campbelltown

Water Board Sewage Tank, Terry Hills

PWD Wharf, Eden

Amphibious Landing Wharf Woolwich

Dept of Housing, Waterloo

Water Board, Penshurst Reservoir

Readers Digest Building, Sydney

Bronte Surf Club, Bronte

Barneys Point Bridge, Tweed Heads

Darling Harbour Convention Centre, Sydney

King Street Car Park, Newcastle

Newcastle Foreshore, Newcastle

RTA North Coast Bridges, Grafton

City West Pyrmont Wharves

Franklins Distribution Centre, Ingleburn

Bulk Liquids Berth, Port Botany

Kooragang Island Bridge, Kooragang

Campbell's Cove Wharf, Dawes Point

RTA Swansea Bridge

RTA Woronora Bridge

Wyong Council, The Entrance Bridge

Wyong Council, Box Culverts

RTA Taree Bridges

HMAS Waterhen

PWD, Ulladulla Wharf

Macquarie University, Sydney

Nowra Bridge, Shoalhaven Council

AAP Centre, Sydney

St Huberts Island Bridge, Gosford City Council

Munmorah Power Station, Intake Canal Bridge

Vales Point Power Station, Bund Walls,

North Sydney Olympic Pool

TAS

State Dept of Transport

VIC

Philip Island Bridge

Melbourne Port

Patterson River Bridge

Nelson River Bridge

Residence, 322 Albert St, East Melbourne, VIC

Residence, 53 Washington St, Toorak, VIC

SA

Flinders Power Station, Port Augusta

Northern Power Station, Civil Repairs

Torrens Island Power Station

Torrens Island Access Bridge

QLD

No 4 Wharf, Outer Harbour, North Mackay

Pimpama Flood Structure, Kerkin

QLD Rail, Coomera Bridge

QLD Rail, Gold Coast Rail Link Piles

Townsville Port Authority, Berths 1 & 2

QLD Rail, Boat Creek Bridge

QLD Rail Yeppoon Flats Bridges

QLD Rail, Coorparoo Creek Bridges

Optus Tower, Mackay

QLD Rail, Box Culverts

Cairns Port Authority, Berths 5 & 8

Cairns Port Authority, New Wharf Qld

QLD Rail, Ross River Bridges

Port of Brisbane Corporation, Fisherman's

Wharf - Coal Terminal

Mackay Port Authority

Pasminco, Karumba Jetty

WA

Westrail, Bunbury Railway Bridge

Murdoch University

CBH Wharf, Fremantle

Hot Briquette Mill Port Headland BHP

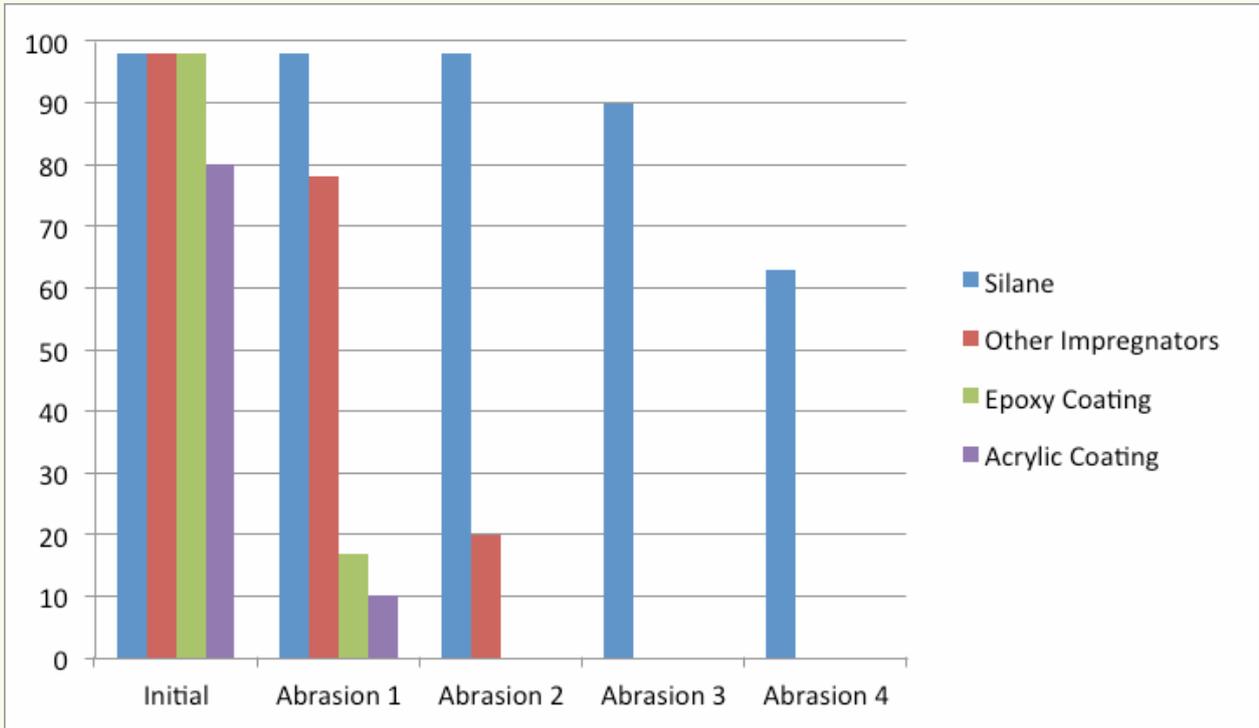
Westrail sleepers, Eastern Goldfields Line

NT

Alice Springs Prison

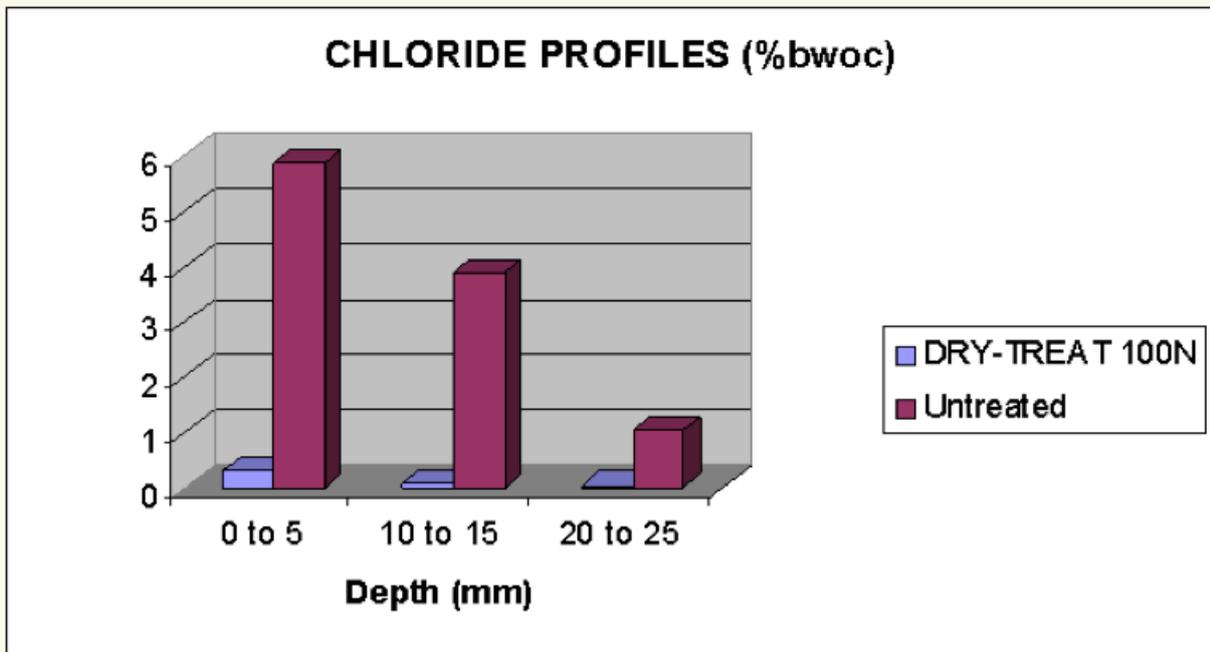
Alice Springs Correctional Centre

AT&U WATERPROOFING RESULTS



Approx. 1 mm concrete loss per abrasion

CHLORIDE PROFILES (%bwoc)



A comparison of the soluble chloride ion content of treated and untreated concrete at various depths from the surface

DRY-TREAT 100N CI™

DRY-TREAT 100N CI™ is a deep penetrating, permanent water-repelling sealer that protects engineering concrete with lasting protection from damage caused by water and waterborne chloride ion salts. It is also an excellent electro-potential corrosion inhibitor for steel reinforcement. Exposed concrete surfaces become easier to clean, maintain and stay in service for longer.

DRY-TREAT 100N CI™ works to significantly reduce the corrosion currents by chemically interrupting the electrolytic current and causing a decrease in the corrosion process. Corrosion current measured after application is negligible while untreated concrete may show visible signs of corrosion including rust and cracks within just a few years. The inhibitor component has a high affinity with steel and forms a protective film on the steel surface. It is able to penetrate through the concrete cover to reach the steel reinforcement.

Typical Applications

DRY-TREAT 100N CI™ is suitable for a wide variety of applications, including new and old marine infra-structure, bridges, tunnels, wharves and jetties, concrete high rise structures, car parks and highways.

Benefits

- Able to repel water and water-borne chloride ion salts;
- Able to migrate through the concrete cover to reduce the chloride ion induced corrosion rate of carbon and galvanized steel reinforcement by between 92 – 99 per cent;
- Able to inhibit corrosion of carbonated reinforced concrete, by keeping out a crucial element – water. Without water to create a salt bridge the carbonation cannot cause corrosion of steel within the concrete;
- Effective in heavily chloride-contaminated concrete;
- Able to equalize the differences in electrochemical potential between polymer repair concrete and the existing concrete;
- Non film-forming;
- Able to work without changing the appearance of the surface - keeps the original look;
- Able to greatly reduce water uptake and minimize freeze thaw spalling and salt spalling;
- An excellent chloride ion salt screen by 98 per cent – ideal for marine and pool areas;
- Highly water vapour permeable – able to breathe so there is no build-up of subsurface moisture, allowing it to dry out;
- Deeply penetrating – protecting against weathering and wearing;
- Solvent free – 100 per cent active ingredient;
- Very alkali resistant – won't breakdown in contact with cement based materials, and
- Able to seal hairline cracks up to 0.3 mm (0.012 in.) and does not flake or peel.

Typical Performance Data for DRY-TREAT 100N CI™ on concrete:

- Reduction in salt water uptake of approximately 98% after 72 hours fully immersed in salt water (Stringent world best practice NHCRP 244 cube test)
- Alkali resistance to pH14
- Typical depth of effective penetration: 0.35 to 1.2 in. /9-30 mm

- Typical service life: 30+ years (based on surface abrasion rate of 1mm per 7 years)

How to use

1. ALWAYS TEST PRODUCT ON A SMALL AREA FIRST and allow a 24-hour cure time to determine the ease of application and desired results.
2. Ensure surfaces to be treated are dry, clean and free of residues.
3. Product is to be applied without thinning.
4. Generously saturate the surface with product using a low-pressure hand spray, a clean brush, or similar. Surface should have a mirror-like "wet" look for three to five seconds. Avoid contact with surrounding areas.
5. After a minimum of 6 hours, repeat Step 4. Total application rate is approximately 16 sq. feet per quart (one litre per 1.67 sq.metres) depending on absorption.
6. Allow 10 minutes for product to penetrate surface then polish surface with a clean white dry cloth to remove excess product.
7. Clean equipment with organic solvent.

Note: Sealer will not prevent surface etching or wear and may lighten or darken some surfaces.

Warranty:

A 30-YEAR PERFORMANCE WARRANTY is offered when applied by an Accredited Applicator following our written instructions and tested by us.

Application rates:

Total application rate is approximately one quart per 16 sq. feet (one litre per 1.67 sq. metres).

Active content:

Greater than 99 per cent active silane plus corrosion inhibitor.

Pack size:

5 gallon (20 litre) and 50 gallon (200 litre) steel drums.

VOC:

390 grams per litre.

Safety:

Dry-Treat™ concrete sealers only use alkoxy/ethoxy silanes which emit alcohol (ethanol) as they react and bond with the concrete. Many other silanes on the market emit methanol (or

other toxic gases) which can not only cause blindness and death but is estimated to be a 25 times more harmful VOC to the atmosphere than pure ethanol.

Precautions:

- Do not take internally.
- Apply when surface temperature is between five and 35 C° (40 to 95 F°).
- Avoid moisture contact with the surface for 6 hours after application.
- Protect surrounding areas from over spray.
- Keep away from drains, plants, water and soil.
- Use only in well-ventilated areas.
- Use a positive pressure respirator if ventilation is inadequate.
- Wear suitable solvent-resistant gloves, protective clothing, safety goggles and an organic vapour respirator during application.
- Avoid applying in windy conditions.
- Wash hands thoroughly.

First Aid:

If swallowed, give a glass of water and contact a physician. If skin contact occurs remove contaminated clothing and wash skin thoroughly. If irritation persists, contact a physician. If in

eyes, hold open, flood with water for at least 15 minutes and contact a physician. If vapors are inhaled, relocate to fresh air. If symptoms persist contact a physician.

Accidents:

Spillage – Take up mechanically or with absorbent material such as sand, earth or vermiculite. Remove all ignition sources.

Limitations:

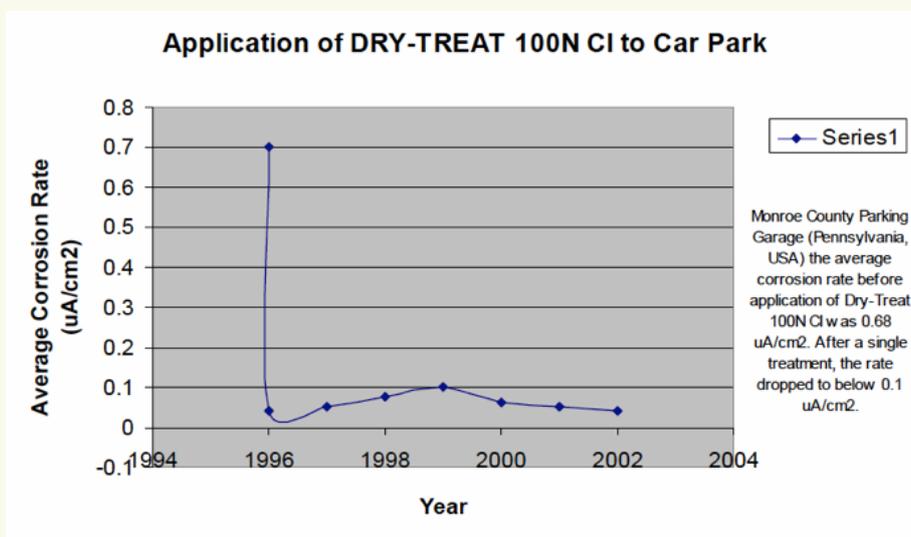
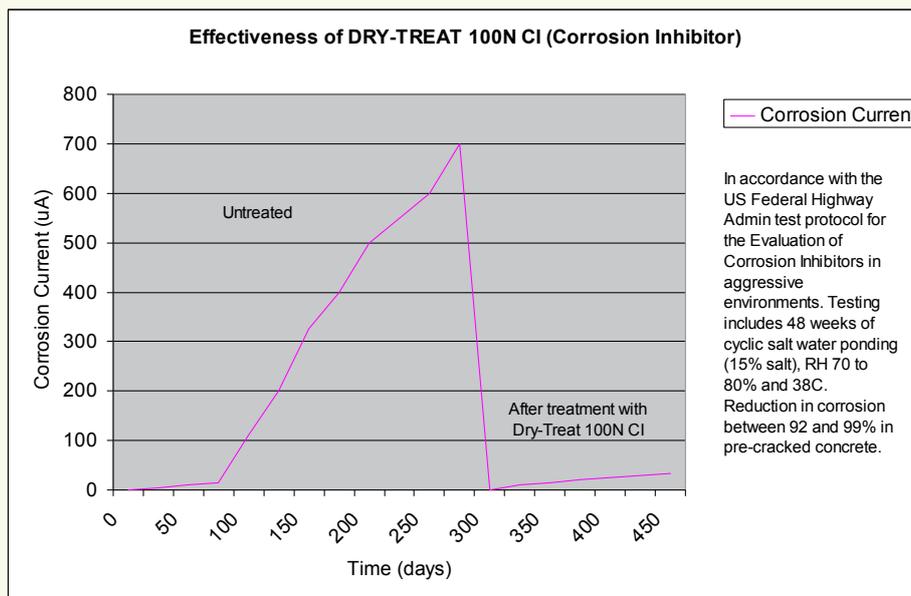
DRY-TREAT 100N CI™ should be used undiluted and is only suitable for exposed surfaces that are not subjected to long-term water pressure.

Storage:

Use product within 12 months of purchase. Keep container tightly sealed, in a cool well-ventilated place. Product is freeze-thaw stable.

Reference sites:

- Australian Department of Defence – Garden Island Dry Dock, Sydney
- Airport car park, Fort Lauderdale, USA
- Monroe County Car Park, Pennsylvania, USA



DRY-TREAT 40SK™

DRY-TREAT 40SK™ is a deep penetrating, permanent water-repelling sealer AND consolidator that protects concrete rendering and panels, paving, driveways, car parks and swimming pool surrounds. DRY-TREAT 40SK™ superior water repellency and consolidation prevents damage to concrete from water and salt ingress. Exposed concrete surfaces treated with DRY-TREAT 40SK™ have lasting protection and become easier to clean and maintain.

Typical Applications

Typical applications: DRY-TREAT 40SK™ is suitable for a wide variety of applications, including concrete panels and rendering, driveways, paving, car parks and swimming pool surrounds. Dry-Treat 40SK™ can also be used for softer, more porous natural stones in salt water and freeze-thaw environments and as a damp course injection.

Benefits

- Non film-forming
- Able to consolidate loose and friable surfaces
- Greatly reduces water uptake, freeze thaw spalling and salt spalling
- An excellent chloride ion salt screen – ideal for infrastructure in marine areas
- Highly water vapor permeable – able to breathe so there is no build-up of subsurface moisture, allowing it to dry out
- Deeping penetrating – protects against weathering and wearing
- Very alkali resistant – won't breakdown in contact with cement based materials
- Able to seal hairline cracks up to 0.3mm (0.012 in.)
- Does not flake or peel

How to Use

1. **ALWAYS TEST PRODUCT ON A SMALL AREA FIRST and allow a 24 hour cure time to determine the ease of application and desired results.**
2. Ensure surfaces to be treated are dry, clean and free of residues.
3. Product is to be applied without thinning.
4. Generously saturate the surface with product using a low-pressure hand spray, a clean brush, or similar. Surface should have a mirror-like "wet" look for 3-5 seconds. Avoid contact with surrounding areas.
5. After 10 minutes, repeat Step 4. Total application rate is approximately one quart per 5 to 40 sq. feet (one litre per 0.5 to 4 sq. metres) depending on absorption.
6. Allow 10 minutes for product to penetrate surface then polish surface with a clean white dry cloth to remove excess product. Do not allow excess product to dry on the surface.
7. Clean equipment with organic solvent e.g. methylated spirits.

8. Sealer will not prevent surface etching, scuff marks or wear and may lighten or darken some surfaces. It is recommended that for sandstone or limestone in a salt water environment e.g. a pool coping, the entire coping should be dipped sealed with DRY-TREAT 40SK™ and a 14 days cure time allowed before the stone is put into service. Please note that the underside of the treated stone will become repellent and a special adhesive such as Davco SE-7 mixed with Davelastic or, Bostik Landscape Adhesive is recommended to fix the stone.

Note: Special instructions can be found for using DRY-TREAT 40SK™ as a consolidator and for damp course injection on our website at www.drytreat.com

Typical Performance Data for DRY-TREAT 40SK™ on concrete:

- Alkali resistance to pH14
- Typical service life: 15+ years (based on surface abrasion rate of 1mm per 7 years).

Warranty:

A 15-YEAR PERFORMANCE WARRANTY is offered when DRY-TREAT 40SK™ is applied by an accredited applicator following our written instructions.

Application rates:

Total application rate is approximately one quart per 5 to 40 sq. feet (one litre per 0.5 to 4 sq. metres) depending on absorption.

Active Content:

A 40 per cent active content in an organic VOC exempt solvent

Pack Size:

One Gallon (3.79 L) and 5 Gallon (18.9 L) containers

VOC:

Less than 120 grams per litre (including exempt solvents) Low Solids Coating Rule.

Safety:

Dry-Treat™'s concrete sealers only use alkoxy/ethoxy silanes which emit alcohol (ethanol) as they react and bond with the concrete. Many other sealers on the market emit METHANE which can cause blindness and death and is estimated to be a 25 times more damaging VOC.

Precautions:

Do not take internally. Apply when surface temperature is between 5 - 35°C (40 - 95°F). Avoid moisture contact with the surface for six hours after application. Protect surrounding areas from over-spray. Keep away from drains, plants, water

and soil. Use only in well-ventilated areas. Use a positive pressure respirator if ventilation is inadequate. Wear suitable solvent-resistant gloves, protective clothing, safety goggles and an organic vapor respirator during application. Avoid applying in windy conditions. Wash hands thoroughly.

First Aid:

If swallowed, give a glass of water and contact a physician. If skin contact occurs remove contaminated clothing and wash skin thoroughly. If irritation persists, contact a physician. If in eyes, hold open, flood with water for at least 15 minutes and contact a physician. If vapors are inhaled, relocate to fresh air. If symptoms persist contact a physician.

Accidents:

Spillage – Take up mechanically or with absorbent material such as sand, earth or vermiculite. Remove all ignition sources.

Limitations:

DRY-TREAT 40SK™ should be used undiluted and is only suitable for exposed surfaces that are not subjected to long-term water pressure.

Storage:

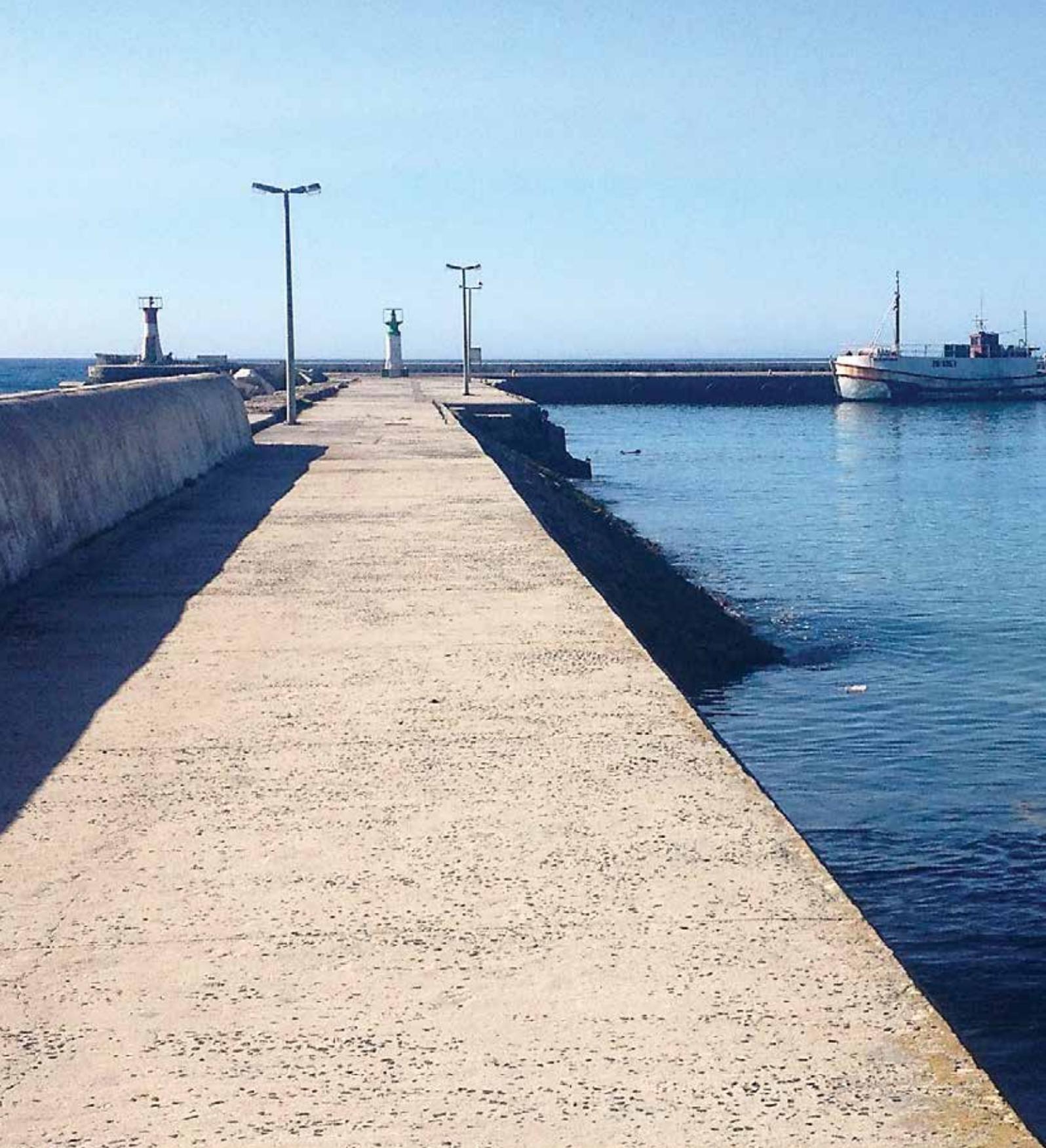
Use product within 12 months of purchase. Keep container tightly sealed, in a cool well-ventilated place. Product is freeze-thaw stable.

Reference sites:

- Sandstone sea retaining wall, Point Piper, NSW, Australia
- The Entrance seawall, Wyong City Council, NSW, Australia
- Ku-ring-gi Chase National Park entrance gates, NSW, Australia
- Residence, Toorok, NSW, Australia
- Residence, Kendall Inlet, NSW, Australia
- Residence, Auckland, New Zealand
- Hesperia Tower Hotel, Barcelona, Spain
- Martello Tower, Essex, England
- The Austonian, Austin, USA

Important Notice to Purchaser

All statements, technical information and recommendations herein are based on documented information and tests. The accuracy or completeness thereof is not guaranteed. Since conditions of purchase are outside our control, the user should determine the suitability of the product for the intended use. The user assumes all risk and liability whatsoever in connection with use of the product.



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DRYTREAT

World leading impregnating sealers™