



DRY TREAT

Excellence in sealing products™

MASONRY & ENGINEERED CONCRETE PROTECTION INTERACTIVE CATALOGUE



START



TABLE OF CONTENTS

ABOUT DRY-TREAT

- [Dry-Treat History](#)
- [Dry-Treat Around the World](#)
- [Typical Applications](#)

WHY SEAL? COMMON PROBLEMS WITH POROUS MATERIALS

- [Staining](#)
- [Efflorescence](#)
- [Salt Spalling](#)
- [Freeze-Thaw Spalling](#)
- [Picture Framing](#)
- [Damp Migration](#)
- [Rebar Corrosion](#)

DRY-TREAT SILANE VS OTHER SEALING TECHNOLOGIES

- [Why Dry-Treat?](#)
- [Dry-Treat Silane Impregnators vs Topical Coatings](#)
- [Dry-Treat Silane Impregnators vs Common Impregnators](#)
- [Dry-Treat Silane Impregnators vs Other Silanes](#)

PRODUCTS

Masonry Sealers

- [STAIN-PROOF M™](#)
- [S-TECH 40SK™](#)
- [S-TECH 100M™](#)
- [S-TECH 40M™](#)

Engineered Concrete Sealers

- [S-TECH CONCREME™](#)
- [S-TECH 100C™](#)
- [S-TECH 100Cci™](#)

PRODUCT SELECTOR

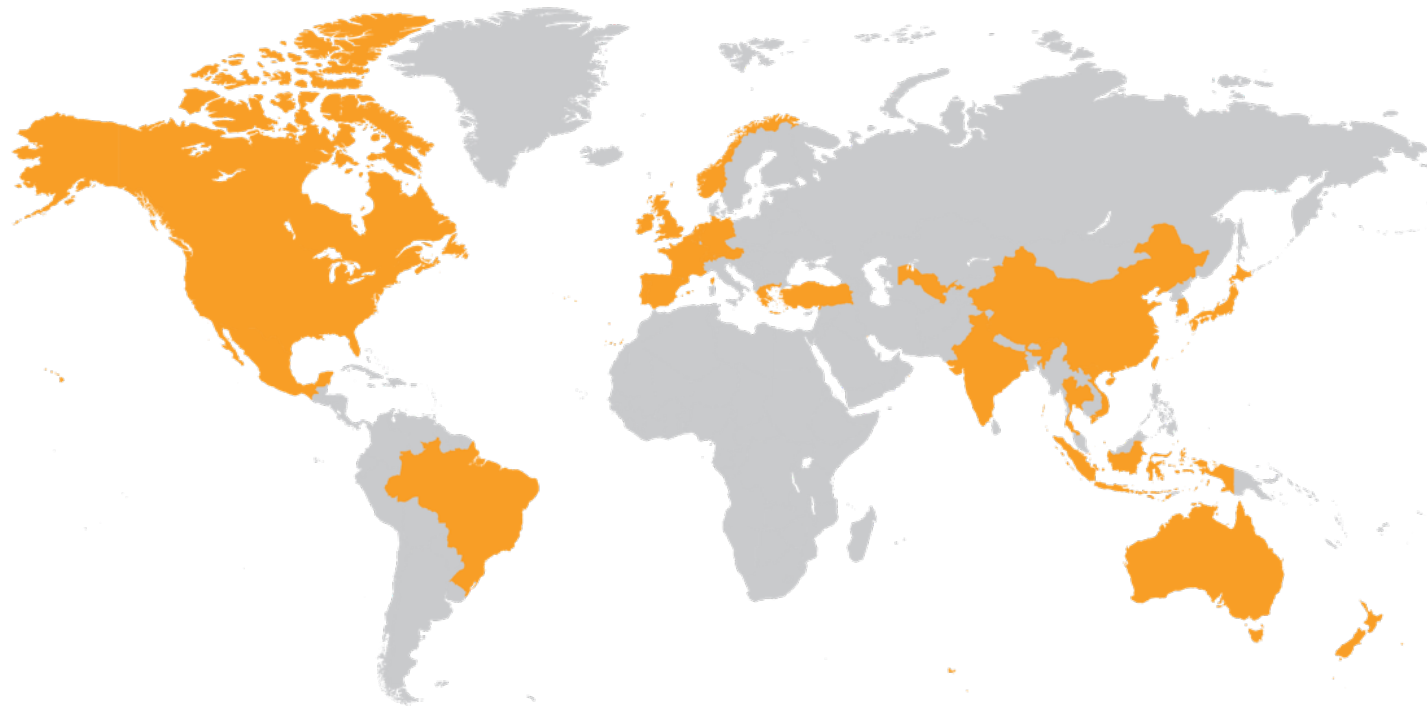
- [By Material](#)
- [By Type of Protection](#)
- [By Product Function](#)

- [Application Rates](#)

DRY-TREAT HISTORY

In 1991 Dry-Treat™ was founded out of a civil engineering company, which specialized in the preventative treatment and remedial restoration of engineered concrete. With a focus on research and development, Dry-Treat™ continues to design world class treatments for a wide range of porous building materials, including brick, terracotta, natural stone, grout, precast and engineered concrete.

DRY-TREAT DISTRIBUTION



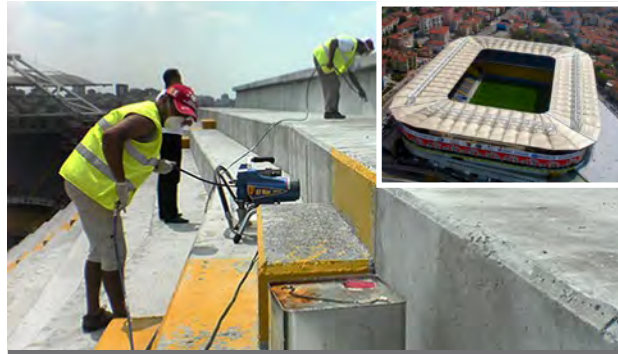
Dry-Treat™ has been distributed in more than 40 countries.

Dry-Treat Around The World

DRY-TREAT AROUND THE WORLD



SYDNEY OPERA HOUSE, AUSTRALIA



FENERBAHÇE STADIUM, TURKEY



HIGHWAY 8, HONG KONG



LUAS TRAM STATION, DUBLIN, IRELAND



DALLAS COWBOYS STADIUM, TX, USA



CHANGI WHARF, SINGAPORE



NATIONAL LIBRARY OF UZBEKISTAN



THE BRUUL, MECHELEN, BELGIUM

SEE OUR
CASE STUDIES

TYPICAL APPLICATIONS

	S-TECH 100M	S-TECH 40M	STAIN-PROOF M	S-TECH 40SK	S-TECH CONCREME	S-TECH 100C	S-TECH 100Cci
Blockwork/Brickwork	✓	✓	✓	✓			
Bridges					✓	✓	✓
Building Facades/ Cladding	✓	✓	✓	✓			
Car Parks					✓	✓	✓
Paving & Driveways	✓	✓	✓	✓	✓	✓	✓
Damp Course Injection					✓	✓	
High Rise Structures					✓	✓	✓
Highways					✓	✓	✓
Masonry Restoration	✓	✓	✓	✓			
Patio/Terraces	✓	✓	✓	✓			
Rail Bridge Decks					✓	✓	✓
Rendering/Stucco	✓	✓	✓	✓			
Swimming Pool Surrounds	✓	✓	✓	✓			
Walkways	✓	✓	✓	✓	✓	✓	✓
Wharfs & Jetties					✓	✓	✓

WHY SEAL?

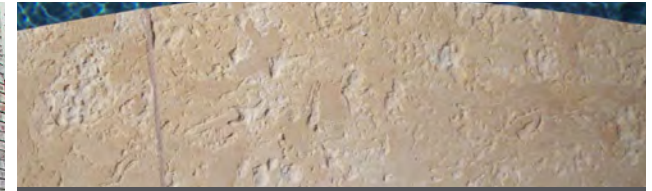
Common Problems with porous materials



STAINING



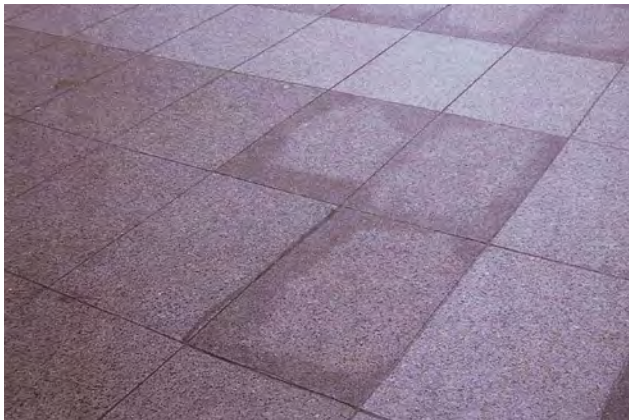
EFFLORESCENCE



SALT SPALLING



FREEZE-THAW SPALLING



PICTURE FRAMING



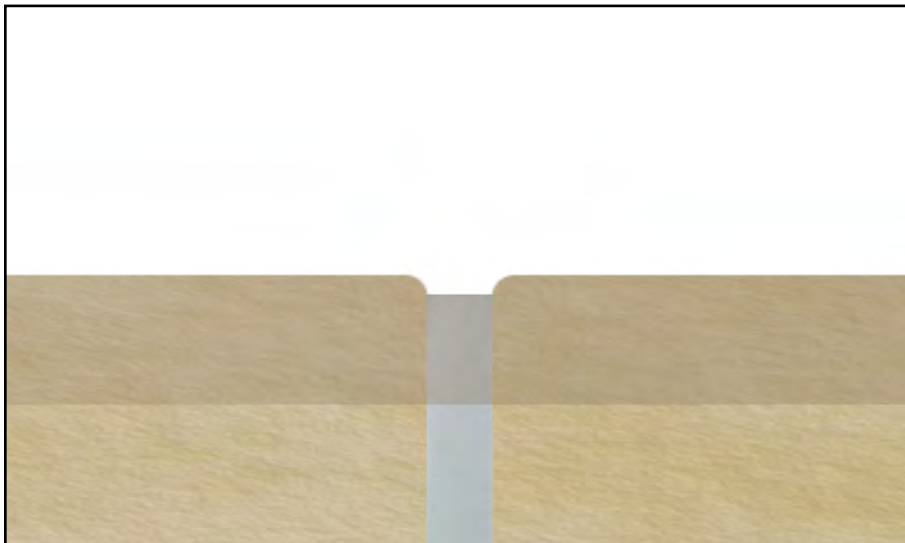
DAMP MIGRATION



REBAR CORROSION

STAINING

Porous building materials act as a sponge with the capillaries actively drawing in liquids, so these materials will readily stain if left untreated. Staining requires costly specialist treatment and can, in some cases, be impossible to remove, so prevention is very important.

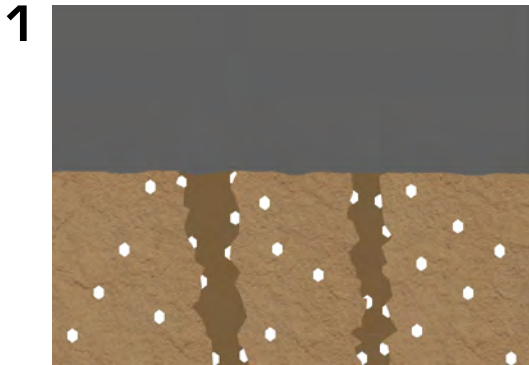


Oil and water based liquids penetrate into the pores and dry, leaving stains which can be difficult to remove.

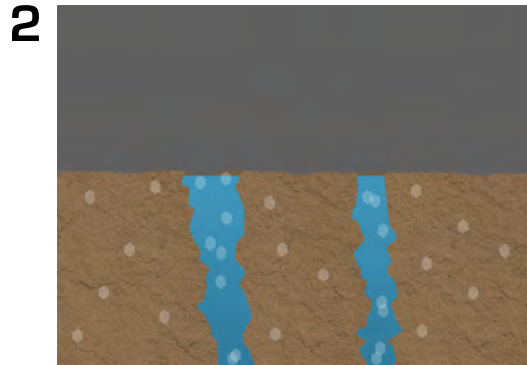


EFFLORESCENCE

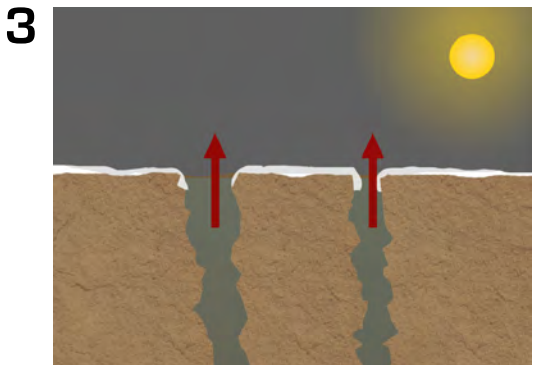
Many building materials, including concrete and grout, contain soluble minerals/salts which will leach out over time if water is allowed to penetrate and move through the pore system. This results in unsightly patches of minerals on the surface, called efflorescence, which hardens and requires specialist costly treatment to remove.



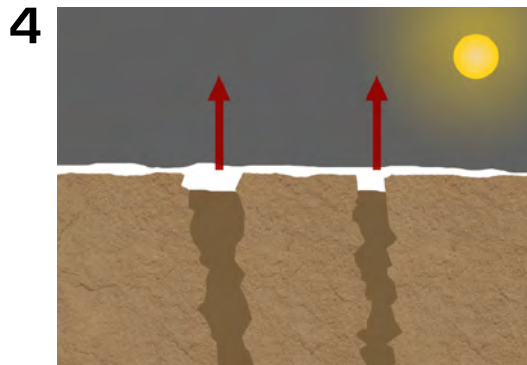
1 Many porous materials, for e.g. concrete contain soluble minerals (salts)



2 When water moves through the pores, it dissolves these salts.



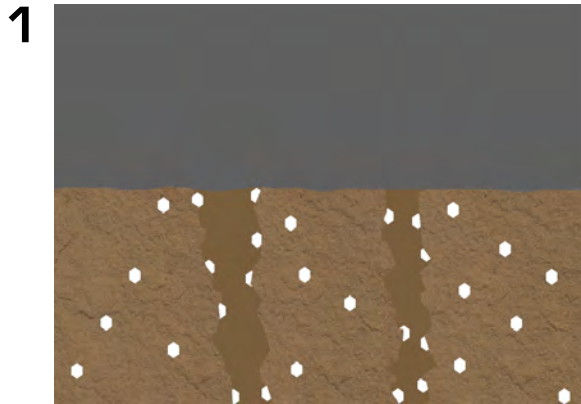
3 Water in the pores is drawn to the driest part of the material - the surface, which is exposed to sun & moving air, where the water evaporates leaving the salts behind (efflorescence).



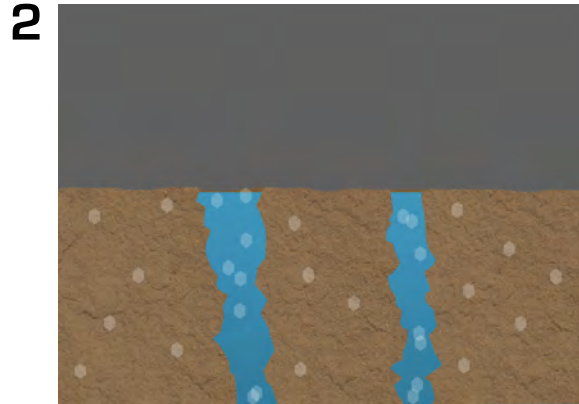
4 Fresh efflorescence can be removed with a dry stiff bristle brush. When exposed to air, efflorescence can carbonize and harden over time. Then specialist treatment is required.



SALT SPALLING



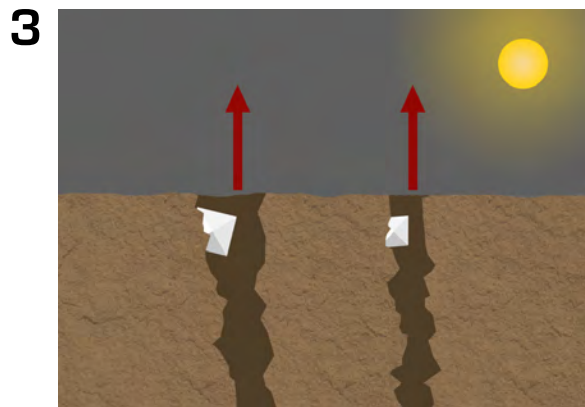
Many porous materials, for e.g. concrete contain soluble minerals (salts)



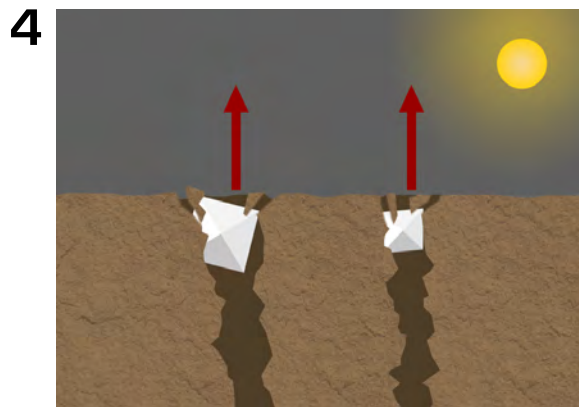
When water moves through the pores, it dissolves these salts.



Unsealed travertine salt-water pool coping 5 months after installation.

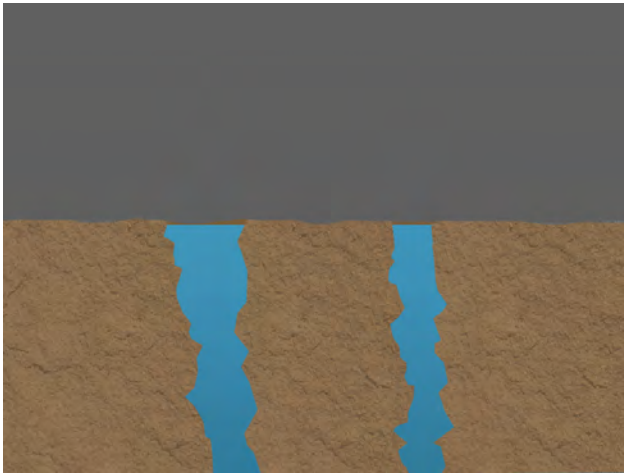


Water in the pores is drawn to the driest part of the material - the surface. These salts can be deposited on the surface or inside the pores just below the surface.

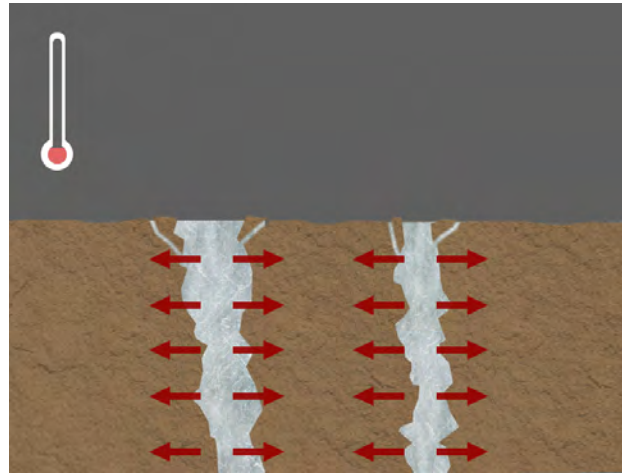


As more salt water moves through the material, the salt crystals continue to grow. Eventually they exert enough pressure to break off small pieces of material (spalling). This process accelerates until the surface is visibly and deeply damaged.

FREEZE-THAW SPALLING



Porous materials have millions of interconnected pores/ capillaries which absorb water and dissolved salts.



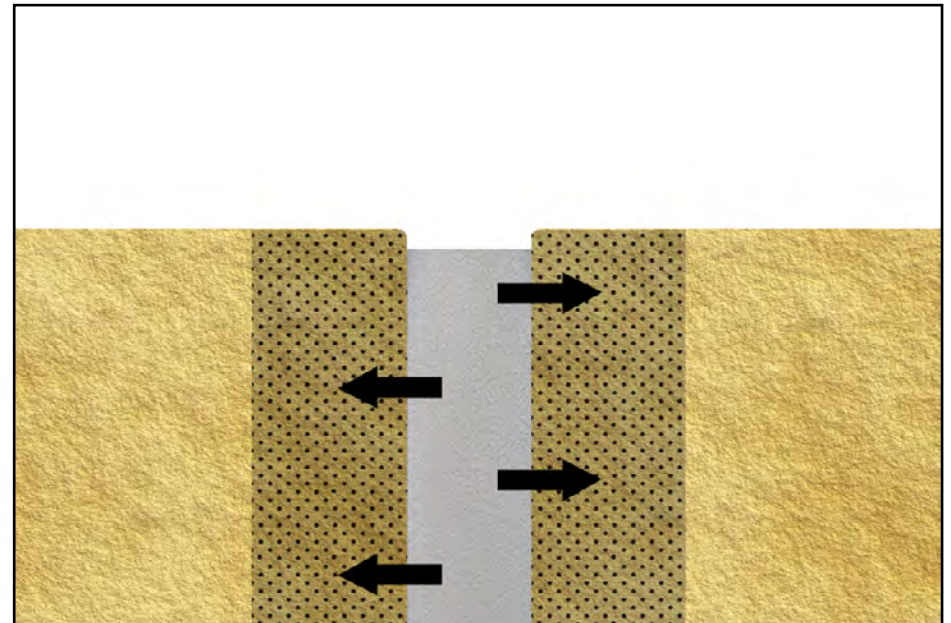
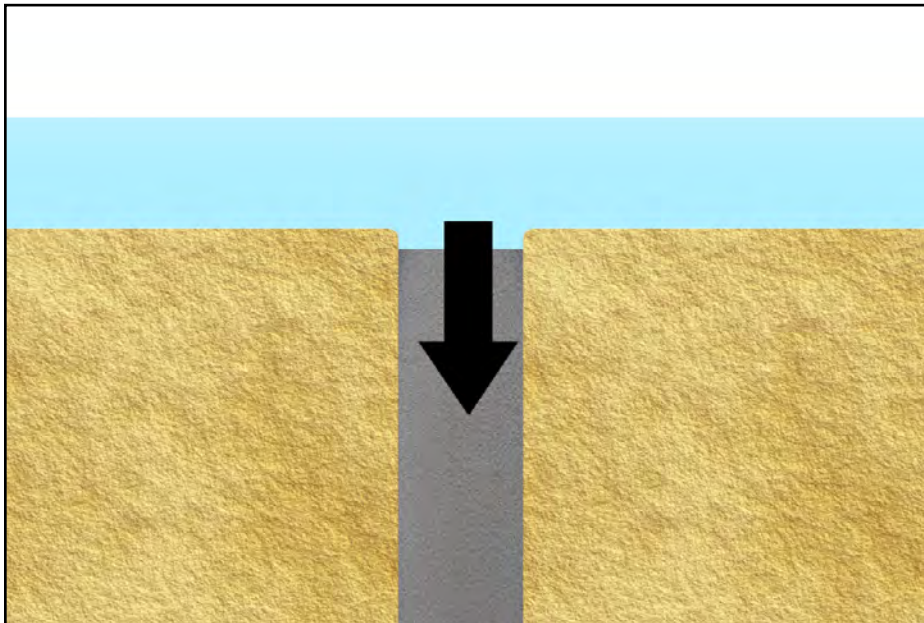
Water in the pores expands as it freezes. When this happens close to the surface, microscopic pieces of the material are broken off (spall), until the surface is visibly and deeply damaged.



Delamination caused by freeze-thaw spalling.

PICTURE FRAMING

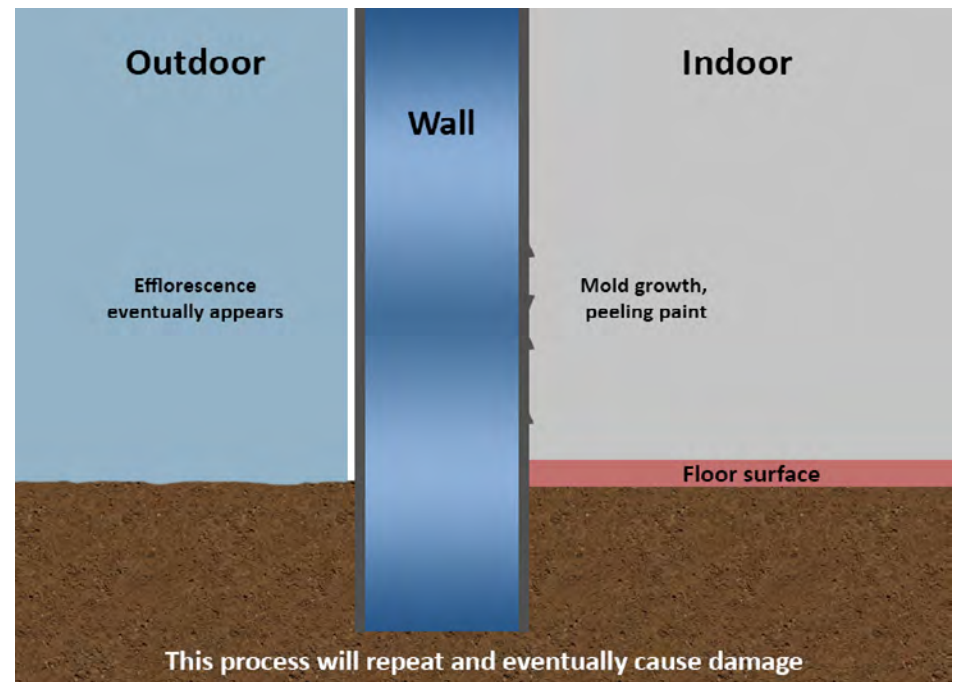
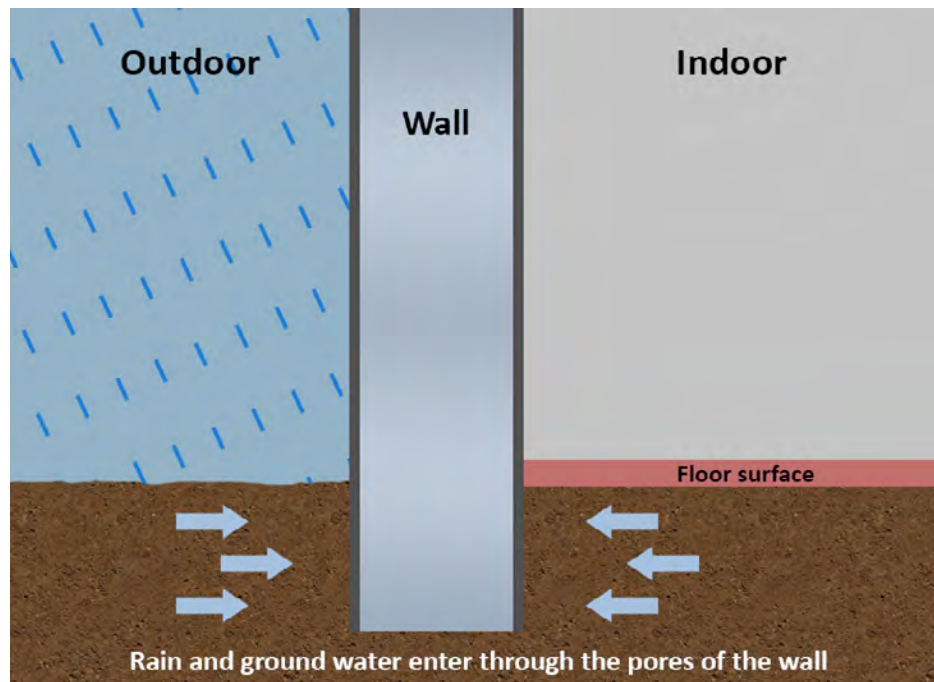
Picture framing is a visible stain occurring around the border of tiles, paving and cladding. Picture framing is caused by water with dissolved contaminants penetrating into the edges of unsealed tiles and evaporating, leaving the contaminants behind. Picture framing is permanent and cannot be fixed, so prevention by sealing is particularly important.



Water with dissolved contaminants penetrates into the edges of unsealed tiles and evaporates, leaving contaminants behind.

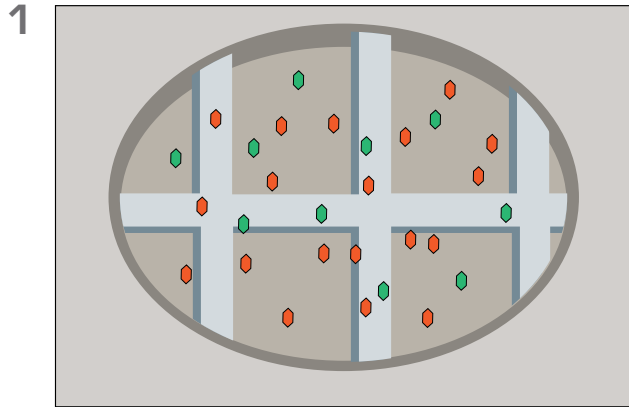
DAMP MIGRATION

Moisture migrates through the pores of a material continuously, from wetter to drier areas, until it can evaporate and escape. An excess of moisture inside porous materials causes mold growth, including concrete cancers, and can make building interiors damp and dangerous for people.

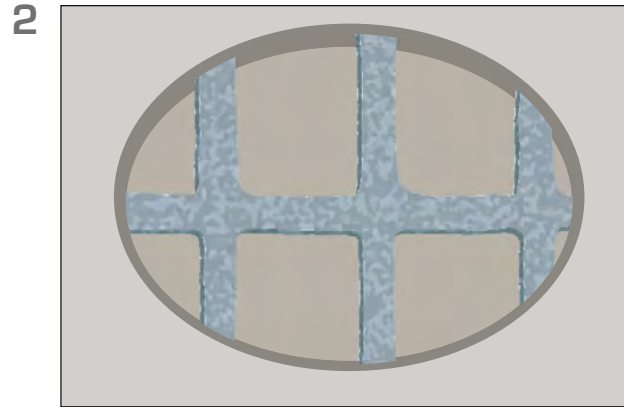


REBAR CORROSION

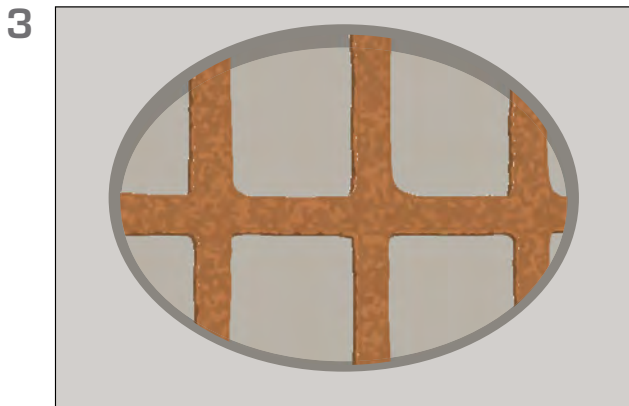
Swelling of steel reinforcement due to rust buildup has broken away the concrete cover, exposing the steel and making it even more vulnerable to corrosion, threatening the integrity of the entire structure.



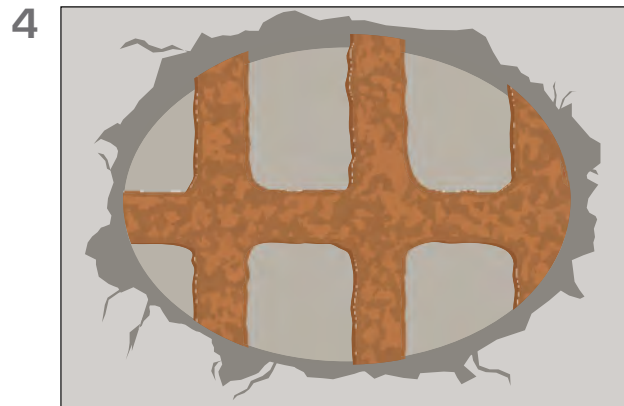
Dissolved salts (chloride ions) penetrate and move through the pore structure of the concrete and come into contact with the steel reinforcement (rebar).



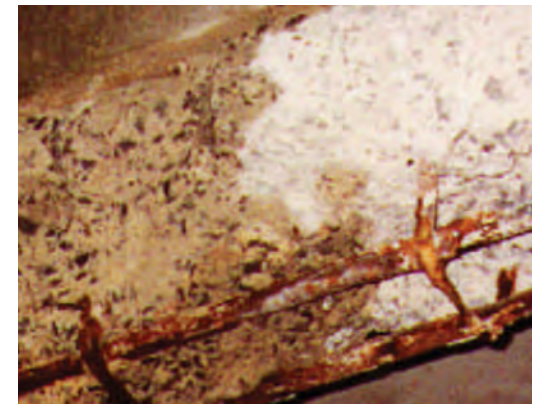
Rebar begins to rust (oxidize).



Continuous internal moisture, especially water containing chloride ions, creates an electrical circuit which accelerates oxidation of the rebar.



As layers rust build up, the rebar swells, putting pressure on the concrete cover. The concrete cover, weakened by spalling and under pressure from the swelling rebar begins to break away in sections.



DRY-TREAT SILANE vs OTHER SEALING TECHNOLOGIES

WHY DRY-TREAT?

DRY-TREAT SILANE IMPREGNATORS VS TOPICAL COATINGS

DRY-TREAT SILANE IMPREGNATORS VS COMMON IMPREGNATORS

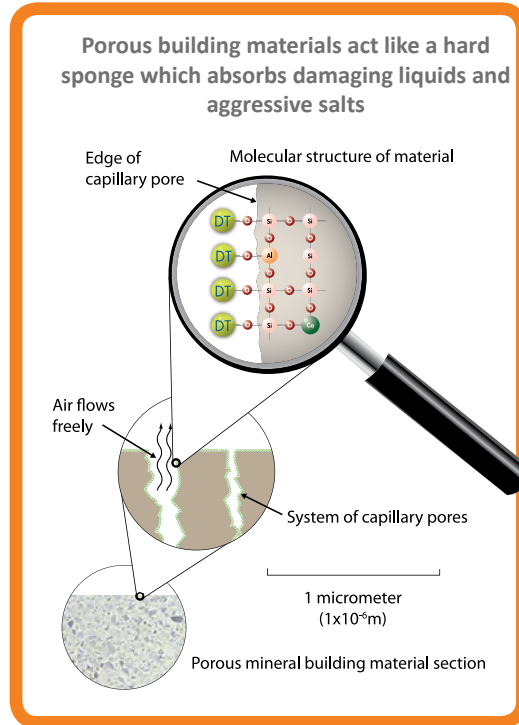
DRY-TREAT SILANE IMPREGNATORS VS OTHER SILANE IMPREGNATORS

WHY DRY-TREAT?

THE ULTIMATE HYDROPHOBIC BARRIER

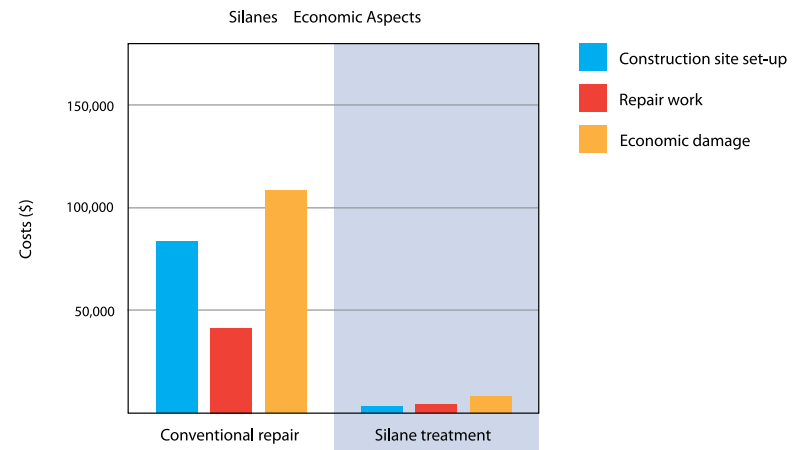
Dry-Treat™ modified silane impregnators are designed to provide superior protection for a wide range of masonry and engineered concrete. For decades, silane technology has been global best practice protection for masonry and engineered concrete against cosmetic staining and common problems caused by the ingress and movement of water and water-borne salts, including: freeze thaw and salt spalling, efflorescence, picture framing, corrosion of integrated metal rebar, alkali silica reactions and damp control.

Dry-Treat™ silanes are designed and optimized for maximum penetration into the capillary structure of porous building materials and superior bonding efficiency, to create the most effective, longest lasting oleophobic and/or hydrophobic (water repellent) barrier.



REDUCING COSTS

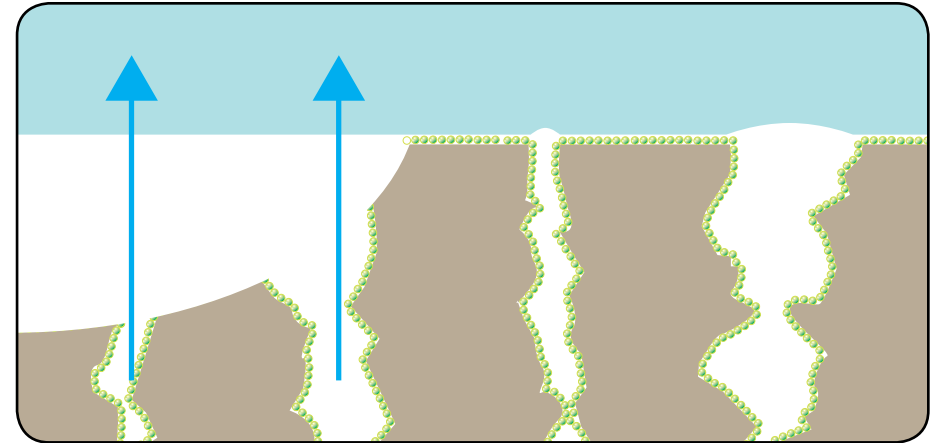
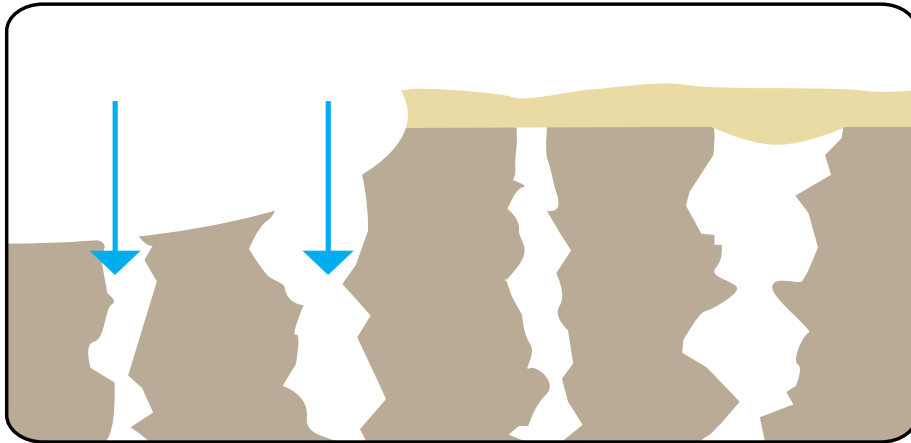
- Dry-Treat™’s silane sealers require minimal equipment and time to apply.
- Preventative maintenance is less costly than repair or rebuilding. Treating a masonry or concrete surface with high quality silanes as a preventative measure usually costs 10%, or less, of the cost of remedial repair/rebuilding.
- 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 and masonry sealer range means re-application is only necessary every 10-30 years so there is zero or minimal disruption to normal activity.
- Silanes are cost-effective, world’s best practice technology for protecting engineered concrete, proven to extend the life of concrete structures by up to 100+ years. They are specified by government departments and private enterprise across Europe, Asia Pacific, USA and Canada.



TOPICAL COATINGS

VS

DRY-TREAT SILANE IMPREGNATORS

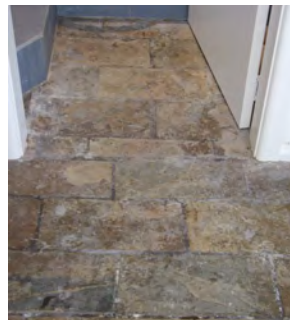


Pros:

- Excellent protection from water and oil ingress for a limited time, while intact.

Cons:

- Exposed to UV, weathering, traffic and cleaning = shorter lifespan.
- Breaks down in high pH environments (e.g. concrete).
- Not breathable so water which wicks into the building material cannot evaporate and escape.
- Tiny breaks in the coating compromise the seal, allowing water to migrate in.
- Surface more slippery when wet.
- Once worn, coating needs to be stripped of to ensure a good re-application.
- **Low level of protection against efflorescence, picture framing, damp migration, and spalling.**



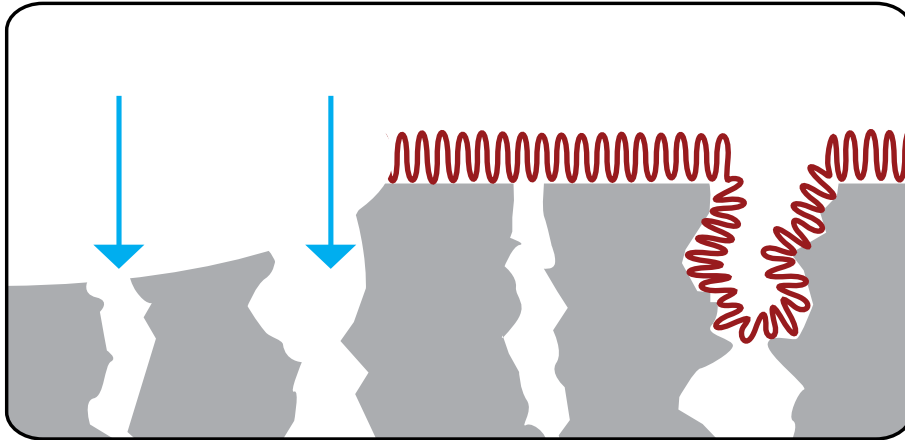
Pros:

- Molecules penetrate deeply even into dense materials such as granite.
- Not affected by UV, surface wear, cleaning and traffic.
- Optimal lifespan (performance warranties 10 - 30 years).
- Resistant to high pH environments.
- No significant change to slip resistance or natural color.
- Fully breathable, allows ~98% water vapor to escape freely.
- **Optimal protection against efflorescence, picture framing, damp migration, and spalling.**

COMMON IMPREGNATORS

VS

DRY-TREAT SILANE IMPREGNATORS

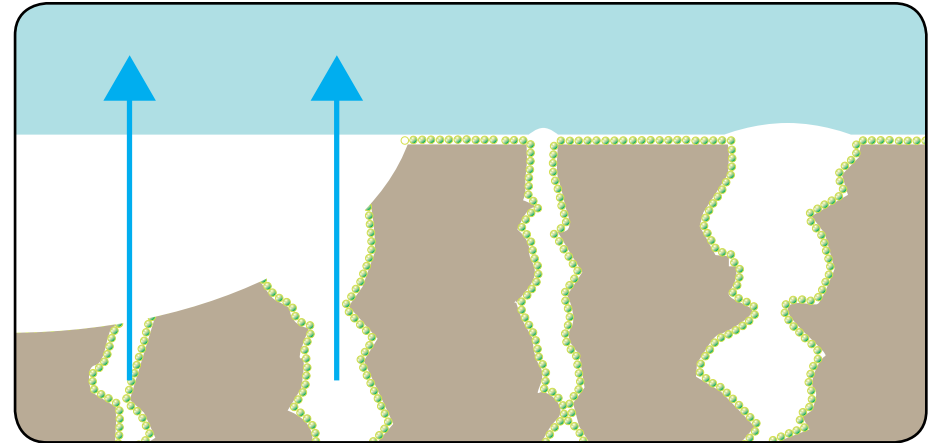


Pros:

- Modern Fluoropolymers and older silicone / siloxane impregnators are good water repellents.
- Partially breathable - water can evaporate and escape, but more slowly.

Cons:

- Larger molecules = less penetration.
- Exposed to UV, weathering, traffic and cleaning and the elements = shorter lifespan.
- Surface can be more slippery when wet.
- Breaks down in high pH environments (e.g. concrete).
- Less protection against efflorescence, picture framing, damp migration, and spalling.
- Once worn, coating needs to be stripped of to ensure a good re-application.
- **Low level of protection against efflorescence, picture framing, damp migration, and spalling.**



Pros:

- **Significantly smaller molecules (over 300x)** penetrate deeply even into dense materials such as granite.
- Not affected by UV, surface wear, cleaning and traffic.
- Optimal lifespan (performance warranties 10 - 30 years).
- Resistant to high pH environments.
- No significant change to slip resistance or natural color.
- Fully breathable, allows ~98% water vapor to escape freely.
- **Optimal protection against efflorescence, picture framing, damp migration, and spalling.**

DRY-TREAT SILANES IMPREGNATORS VS OTHER SILANES IMPREGNATORS

NOT ALL SILANES IMPREGNATORS ARE CREATED EQUAL

The complex, wondrous world of silanes

- Silane molecules are particularly small and resilient and are designed for a wide variety of functions from sealers, to adhesives and coolants. 3M Post-it™ note glue is silane based.
- More important – there are many different silanes used to make impregnating sealers (and coatings).
- AND many creative ways to formulate & optimize silane-based sealers to maximize performance.
- DRY-TREAT has specialized in R&D of silane impregnators for 26 year.

Performance factors for masonry impregnators

- Depth of penetration = deeper oil and/or water repellent zone.
- Dry-Treat Masonry silanes deeply penetrate even dense polished granites.
- Superior bonding efficiency = more silane chemically bonded inside the pores = superior repellence & longevity.
- Optimized performance for low pH, low silica materials, e.g. brick, stone
- Standard silanes are designed for CONCRETE, a high pH, high silica material.
- Dry-Treat™ masonry silanes are optimized to bond equally efficiently with low pH, low silicate materials.
- Dry-Treat™ only uses ethoxy silanes which produce alcohol, NOT methoxy silanes that produce dangerous methanol

MASONRY SEALERS



STAIN-PROOF M™

Premium water & oil repellent impregnator optimized for superior, long lasting protection of porous materials



S-TECH 40SK™

Consolidator and water repellent. Superior protection of softer, more porous materials against freeze-thaw / salt spalling.



S-TECH 100M™

100% silane-based, impregnating water repellent optimized to provide superior protection for masonry, including brick, concrete, natural stone and terracotta.



S-TECH 40M™

40% silane-based, impregnating water repellent optimized to provide superior protection for masonry, including brick, concrete, natural stone and terracotta.

ENGINEERED CONCRETE SEALERS



S-TECH CONCREME™

80% silane impregnating cream. Optimal protection for engineered concrete against water and chloride ion ingress.



S-TECH 100C™

100% silane impregnating sealer. Optimal protection for engineered concrete against water and chloride ion ingress.



S-TECH 100Cci™

Concentrated silane impregnator with corrosion inhibitor. Optimal protection for engineered concrete against water and chloride ion ingress.

STAIN-PROOF M™

PREMIUM WATER AND OIL REPELLENT IMPREGNATOR

OPTIMIZED FOR SUPERIOR, LONG LASTING PROTECTION OF POROUS MATERIALS, INCLUDING BRICK, CONCRETE, NATURAL STONE, TERRACOTTA AND GROUT.

STAIN-PROOF M™ is an impregnating, invisible, fully breathable, silane-based impregnating sealer. STAIN-PROOF M™ provides superior, longer lasting protection against common forms of damage caused by the ingress of oil and water-based liquids, including: Staining, efflorescence, freeze-thaw / salt spalling and picture framing. It also keeps surfaces looking good for longer and makes them easier to clean and maintain. STAIN-PROOF M™ is optimized for maximum penetration and bonding efficiency across the widest range of exposed cementitious and non-cementitious porous building materials, from the densest natural stones to highly porous precast concrete, brick, terracotta and grout.



TYPICAL APPLICATIONS

- STAIN-PROOF M™ is suitable for outdoor residential and commercial applications, including: building facades, floors, walls, swimming pool surrounds, patios, garages, driveways, pathways, and entertaining areas.
- STAIN-PROOF M™ is designed for new or restored, horizontal or vertical, architectural or structural surfaces, including: Cladding, tile, paving, blockwork, brickwork, precast panels, stack stone, veneers and grout joints.
- Recommended for use on horizontal surfaces which require protection from oil-based staining from food and beverages as well as water ingress.

SUITABLE SURFACES:

Suitable for a wide range of porous building materials, including natural stone, cast stone, brick, terracotta, concrete and grout.

BENEFITS:

- Unique super-penetrating, permanent bonding technology for long lasting protection.
- Superior water and oil repellence for superior stain protection: Tested in accordance with ISO 10545-14 Determination of resistance to stains Class 5 (highest class).
- Premium protection against common types of damage caused by water and chloride ion ingress, including freeze-thaw / salt water spalling, efflorescence, picture framing and damp migration.

- Smaller silane for maximum penetration, even into dense natural stones such as granite.
- Forms full covalent chemical bonds, lining the pores of the treated material.
- Formula is optimized to facilitate efficient bonding across all types of porous masonry, including non-cementitious, low pH materials such as brick and natural stone.
- A 15 year performance warranty is available – see Warranty section below for details.
- Designed for outdoor use on residential and commercial use.
- No color change on most stones and masonry surfaces.
- Treated surfaces are easier to clean and remain looking good for longer.
- Fully breathable – allows water to evaporate and escape freely as water vapor, preventing harmful moisture buildup inside the treated material.
- Stands up to alkaline cleaners and pressure hosing.
- Retains slip resistance when applied according our written instructions and guidelines.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Non film forming so it cannot flake or peel and is resistant to UV
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealers do NOT contain methoxy silanes which emit methanol and can cause blindness / death

WARRANTY:

A 15 year performance warranty is available if product is applied by a level 4 Accredited Applicator at the optimal application rate (see section on Total Application Rates), according to our written instructions and guidelines and samples are provided to us for testing. Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



DOWNLOADS:

[STAIN-PROOF M™ Specification Sheet](#)

STAIN-PROOF M SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

- Stain Test: ISO 10545 – 14:1995 – Part 14: Determination of resistance to stains:
 - [Iodine on granite – class 5 \(highest rating\)](#)
 - [Olive oil on granite – class 5 \(highest rating\)](#)
- [Slip Test: AS/NZS 4586:2004](#)

S-TECH 40SK™

CONSOLIDATOR AND WATER REPELLENT

SUPERIOR PROTECTION OF VERY POROUS BRICK, CONCRETE, NATURAL STONE AND TERRACOTTA AGAINST FREEZE-THAW / SALT SPALLING.

S-TECH 40SK™ is an impregnating, invisible fully breathable consolidator and silane water repellent. S-TECH 40SK™ is designed to protect softer, more porous building materials in a freeze-thaw or salt water environment and helps to consolidate friable surfaces.

Denser, stronger materials may only require a water repellent, but S-TECH 40SK is recommended for very porous types of natural stone, brick, terracotta, paving and grout which are more prone to spalling damage caused by water freezing and dissolved salts. Treated surfaces become easier to clean, maintain and keep looking good for longer.



TYPICAL APPLICATIONS

- Protection of very porous building materials used in the building envelope and horizontal surfaces, including: Cladding, blockwork, brickwork, grout and salt water pool surrounds, paving and patios.
- S-TECH 40SK™ is suitable for new build and restored masonry surfaces.
- Recommended for use on very porous building materials which are exposed to salt water or freeze-thaw conditions.

SUITABLE SURFACES:

Suitable for very porous building materials, including sandstone, limestone, low MPA precast concrete, cast stone, more porous brick, Saltillo, terracotta and grout.

BENEFITS:

- S-TECH 40SK™ is a specialized impregnator, designed for premium protection of very porous building materials against spalling in a freeze-thaw and / salt water environment.
- Penetrates deeply and forms full covalent bonds inside the capillaries for maximum, long lasting performance.
- Superior protection against other problems caused by water and water borne salts, including: efflorescence, picture framing and damp migration
- Widely used for sealing sandstone, limestone, travertine, dry-stamped concrete pavers, cast stone and low MPA precast concrete around salt water swimming pools or on vertical surfaces exposed to freeze-thaw conditions.

- Retains natural surface color and finish
- Keeps surfaces looking new for longer, makes cleaning easier
- Fully breathable, allowing water vapor to escape freely, avoiding harmful moisture build-up inside the material
- Designed for outdoor surfaces on residential and commercial projects.
- Negligible change to slip resistance when applied according our written instructions and guidelines.
- A 15 year performance warranty is available – see Warranty section below for details.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Non film forming so it cannot flake or peel and is resistant to UV
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealer do NOT contain methoxy silanes which emit methanol and can cause blindness / death

WARRANTY:

A 15 year performance warranty is available if product is applied by a level 3 or 4 Accredited Applicator according to our written instructions and guidelines, at the minimum total application rate for the surface material (see table in the Total Application Rates section above).

Surface materials which are in regular contact with salt water, including the splash zone around salt water pools, must be dip sealed prior to installation to apply for a performance warranty. The material must be fully submerged for a minimum of 15 seconds.

Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



DOWNLOADS:

[S-TECH 40SK™ Specification Sheet](#)

S-TECH 40SK SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

- **Consolidation Test - AS/NZS4456.10 – resistance of masonry to salt attack:**
 - [Limestone - >99% reduction of weight loss from salt water corrosion](#)
 - [Sandstone – >99.9% reduction of weight loss from salt water corrosion](#)

S-TECH 100M™

100% SILANE-BASED, IMPREGNATING WATER REPELLENT

OPTIMIZED TO PROVIDE SUPERIOR PROTECTION FOR MASONRY, INCLUDING BRICK, CONCRETE, NATURAL STONE AND TERRACOTTA.

S-TECH 100M™ is a fully breathable, modified silane impregnator which penetrates deeply and provides superior water repellent. S-TECH 100M™ is optimized to bond efficiently inside a wide variety of masonry, including all types of natural stone, cast stone, brick, terracotta, concrete and grout. S-TECH 100M™ is designed to maintain the condition and maximize the life of masonry against common forms of damage caused by the ingress of water and salts, including: Efflorescence and leaching of other water soluble minerals, freeze-thaw / salt spalling and picture framing. It also keeps surfaces looking good for longer and makes them easier to clean and maintain.



TYPICAL APPLICATIONS

- Protection masonry materials used in the building envelope and horizontal surfaces, including: Building facades, cladding, blockwork, brickwork, grout, pathways, terraces and patios.
- S-TECH 100M™ is suitable for new build and restored masonry surfaces.
- Recommended for specification where building is exposed to consistent high rainfall and / or freeze thaw conditions.

SUITABLE SURFACES:

Suitable for a wide range of porous building materials, including natural stone, cast stone, brick, terracotta, concrete and grout.

WARRANTY:

A 20 year performance warranty is available if product is applied by a level 4 Accredited Applicator at the optimal application rate (see section on Total Application Rates), according to our written instructions and guidelines and samples are provided to us for testing. Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



BENEFITS:

- Smaller silane for maximum penetration.
- Formula is optimized to facilitate efficient bonding across all types of masonry, including non-cementitious, low pH materials such as brick and natural stone.
- Maximum penetration and optimized bonding efficiency provide superior long term water repellence.
- Premium protection against freeze-thaw / salt water spalling, efflorescence, picture framing, damp migration and other common damage caused by water and chloride ion ingress
- No color change on most stones and masonry surfaces.
- Negligible change to slip resistance when applied according our written instructions and guidelines.
- A 20 year performance warranty is available – see Warranty section below for details.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Non film forming so it cannot flake or peel and is resistant to UV
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealer do NOT contain methoxy silanes which emit methanol and can cause blindness / death

DOWNLOADS:

[S-TECH 100M™ Specification Sheet](#)

S-TECH 100M™ SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

[NCHRP244 series ii, immersion of concrete cube test \(Conducted on very high density 69 MPa structural concrete\)](#)

- Reduction in absorption of water after 72 hour immersion: >94%
- Reduction in absorption of NaCl solution after 72 hour immersion: >96%

[ASTM C67 RILEM Tube Test - Water Absorption of Brick](#)

- Reduction of water absorption after 24 hours: ~98% (>90% is considered excellent)
- Penetration (application rate of 320 sq ft. / gallon (8 sq. m. / Liter): >20mm (>5mm is considered excellent)

S-TECH 40M™

40% SILANE-BASED, IMPREGNATING WATER REPELLENT

OPTIMIZED TO PROVIDE SUPERIOR PROTECTION FOR MASONRY, INCLUDING BRICK, CONCRETE, NATURAL STONE AND TERRACOTTA.

S-TECH 40M™ is a fully breathable, modified silane impregnator which penetrates deeply and provides superior water repellent. S-TECH 40M™ is optimized to bond efficiently inside a wide variety of masonry, including all types of natural stone, cast stone, brick, terracotta, concrete and grout. S-TECH 40M™ is designed to maintain the condition and maximize the life of masonry against common forms of damage caused by the ingress of water and salts, including: Efflorescence and leaching of other water soluble minerals, freeze-thaw / salt spalling and picture framing. It also keeps surfaces looking good for longer and makes them easier to clean and maintain.



TYPICAL APPLICATIONS

- Protection masonry materials used in the building envelope and horizontal surfaces, including: Building facades, cladding, blockwork, brickwork, grout, pathways, terraces and patios.
- S-TECH 40M™ is suitable for new build and restored masonry surfaces.
- Recommended for specification where building is exposed to consistent high rainfall and / or freeze thaw conditions.

SUITABLE SURFACES:

Suitable for a wide range of porous building materials, including natural stone, cast stone, brick, terracotta, concrete and grout.

WARRANTY:

A 10 year performance warranty is available if product is applied by a level 4 Accredited Applicator at the optimal application rate (see section on Total Application Rates), according to our written instructions and guidelines and samples are provided to us for testing. Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



BENEFITS:

- Smaller silane for maximum penetration.
- Formula is optimized to facilitate efficient bonding across all types of masonry, including non-cementitious, low pH materials such as brick and natural stone.
- Maximum penetration and optimized bonding efficiency provide superior long term water repellence.
- Premium protection against freeze-thaw / salt water spalling, efflorescence, picture framing, damp migration and other common damage caused by water and chloride ion ingress
- No color change on most stones and masonry surfaces.
- Negligible change to slip resistance when applied according our written instructions and guidelines.
- A 10 year performance warranty is available – see Warranty section below for details.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Non film forming so it cannot flake or peel and is resistant to UV
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealer do NOT contain methoxy silanes which emit methanol and can cause blindness / death

DOWNLOADS:

[S-TECH 40M™ Specification Sheet](#)

S-TECH 40M™ SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

[NCHRP244 series ii, immersion of concrete cube test \(Conducted on very high density 69 MPa structural concrete\)](#)

- Reduction in absorption of water after 72 hour immersion: >94%
- Reduction in absorption of NaCl solution after 72 hour immersion: >96%

[ASTM C67 RILEM Tube Test - Water Absorption of Brick](#)

- Reduction of water absorption after 24 hours: ~98% (>90% is considered excellent)
- Penetration (application rate of 320 sq ft. / gallon (8 sq. m. / Liter): >20mm (>5mm is considered excellent)

S-TECH CONCREME™

80% SILANE IMPREGNATING CREAM

OPTIMAL PROTECTION FOR ENGINEERED CONCRETE AGAINST WATER AND CHLORIDE ION INGRESS.

S-TECH CONCREME™ water based, fully breathable, 80% silane cream, penetrates deeply into engineered concrete and forms permanent chemical bonds inside the pores to provide optimal, long lasting water repellence and protection against the ingress of water and dissolved chloride ions.

It is the ideal preventative measure to maintain the condition and prolong the life of concrete structures against common forms of damage caused by water or salts, including: Efflorescence and leaching of water soluble minerals, freeze-thaw / salt spalling and picture framing. It also keeps surfaces looking good for longer and makes them easier to clean and maintain.



TYPICAL APPLICATIONS

- High rise concrete structures, parking garages, highways, overpasses, bridges, wharfs, jetties.
- Especially important for the protection of concrete structures in a salt water or freeze-thaw environment or where de-icing salts are used.

SUITABLE SURFACES:

Engineered / structural / poured concrete

WARRANTY:

A 30 year performance warranty is available if product is applied by a level 4 Accredited Applicator at the optimal application rate (see section on Total Application Rates), according to our written instructions and guidelines and samples are provided to us for testing. Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



BENEFITS:

- Longer dwell time maximizes penetration, bonding and water repellence
- Premium protection against freeze-thaw / salt water spalling, efflorescence, picture framing and other common damage caused by water and chloride ion ingress
- A 30 year per performance warranty is available – see Warranty section for details.
- Easier application particularly on vertical surfaces and overhangs
- Water-based emulsion for lower VOC <329 g/l – meets SCAQMD rule 1113 for reactive penetrating sealers, within 5 miles of the ocean or above 4000ft on reinforced concrete structures.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Retards reinforcement corrosion (even in carbonated concrete)
- Reduces alkali aggregate reactions
- Non film forming so it cannot flake or peel and is resistant to UV
- Studies have demonstrated that high performance silanes can extend the service life of reinforced concrete structures by over 100 years
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealer do NOT contain methoxy silanes which emit methanol and can cause blindness / death

DOWNLOADS:

[S-TECH CONCREME™ Specification Sheet](#)
S-TECH CONCREME™ SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

[NCHRP244 series ii, immersion of concrete cube test \(Conducted on very high density 69 MPa structural concrete\)](#)

- Reduction in absorption of water after 72 hour immersion: ~95%
- Reduction in absorption of NaCl solution after 72 hour immersion: ~96%

S-TECH 100C™

100% SILANE IMPREGNATING SEALER

OPTIMAL PROTECTION FOR ENGINEERED CONCRETE AGAINST WATER AND CHLORIDE ION INGRESS.

S-TECH 100C™ is a fully breathable, 100% octyl silane which penetrates deeply into engineered concrete and forms permanent chemical bonds inside the pores to provide optimal, long lasting water repellence and protection against the ingress of water and dissolved chloride ions.

It is designed to maintain the condition and maximize the life of concrete structures against common forms of damage caused by the ingress of water and salts, including: Efflorescence and leaching of water soluble minerals, freeze-thaw / salt spalling and picture framing. It also keeps surfaces looking good for longer and makes them easier to clean and maintain.



TYPICAL APPLICATIONS

- High rise concrete structures, parking garages, highways, overpasses, bridges, wharfs, jetties.
- Especially important for the protection of concrete structures in a salt water or freeze-thaw environment or where de-icing salts are used.

SUITABLE SURFACES:

Engineered / structural / poured concrete

WARRANTY:

A 30 year performance warranty is available if product is applied by a level 4 Accredited Applicator at the optimal application rate (see section on Total Application Rates), according to our written instructions and guidelines and samples are provided to us for testing. Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



BENEFITS:

- Penetrates deeply, and forms full covalent bonds inside the pores of the concrete for superior long term water repellence.
- Premium protection against freeze-thaw / salt water spalling, efflorescence, picture framing and other common damage caused by water and chloride ion ingress
- A 30 year performance warranty is available – see Warranty section for details.
- VOC <329g/L - meets SCAQMD rule 1113 for reactive penetrating sealers, within 5 miles of the ocean or above 4000ft on reinforced concrete structures.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Retards reinforcement corrosion (even in carbonated concrete)
- Reduces alkali aggregate reactions
- Non film forming so it cannot flake or peel and is resistant to UV
- Studies have demonstrated that high performance silanes can extend the service life of reinforced concrete structures by over 100 years
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealer do NOT contain methoxy silanes which emit methanol and can cause blindness / death

DOWNLOADS:

[S-TECH 100C™ Specification Sheet](#)

S-TECH 100C™ SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

[NCHRP244 series ii, immersion of concrete cube test \(Conducted on very high density 69 MPa structural concrete\)](#)

- Reduction in absorption of water after 72 hour immersion: >95%
- Reduction in absorption of NaCl solution after 72 hour immersion: >97%

S-TECH 100Cci™

CONCENTRATED SILANE IMPREGNATOR WITH CORROSION INHIBITOR

OPTIMAL PROTECTION FOR ENGINEERED CONCRETE AGAINST WATER AND CHLORIDE ION INGRESS.

S-TECH 100Cci™ is a fully breathable, 100% octyl silane which penetrates deeply into engineered concrete and forms permanent chemical bonds inside the pores to provide optimal, long lasting water repellence and protection against the ingress of water and dissolved chloride ions. The corrosion inhibitor provides additional protection to the embedded steel rebar reinforcement.

It is designed to maintain the condition and maximize the life of concrete structures against common forms of damage caused by the ingress of water and salts, including: Efflorescence and leaching of water soluble minerals, freeze-thaw / salt spalling and picture framing. It also keeps surfaces looking good for longer and makes them easier to clean and maintain.



TYPICAL APPLICATIONS

- High rise concrete structures, parking garages, highways, overpasses, bridges, wharfs, jetties.
- Especially important for the protection of concrete structures in a salt water or freeze-thaw environment or where de-icing salts are used.

SUITABLE SURFACES:

Engineered / structural / poured concrete

WARRANTY:

A 30 year performance warranty is available if product is applied by a level 4 Accredited Applicator at the optimal application rate (see section on Total Application Rates), according to our written instructions and guidelines and samples are provided to us for testing. Industry professionals can contact their local Dry-Treat representative or email info@drytreat.com to enquire about Accredited Applicator training and certification.



BENEFITS:

- Penetrates deeply, and forms full covalent bonds inside the pores of the concrete for superior long term water repellence.
- Premium protection against freeze-thaw / salt water spalling, efflorescence, picture framing and other common damage caused by water and chloride ion ingress
- Contains amine corrosion inhibitor to provide additional protection for the reinforcing steel rebar against oxidation.
- A 30 year performance warranty is available – see Warranty section for details.
- VOC <329g/L - meets SCAQMD rule 1113 for reactive penetrating sealers, within 5 miles of the ocean or above 4000ft on reinforced concrete structures.
- High resistance to alkaline (high pH) environments. Concrete is highly alkaline / base and can severely shorten the life of other technologies.
- Able to seal hairline cracks up to 0.3 mm (0.012 in.)
- Retards reinforcement corrosion (even in carbonated concrete)
- Reduces alkali aggregate reactions
- Non film forming so it cannot flake or peel and is resistant to UV
- Studies have demonstrated that high performance silanes can extend the service life of reinforced concrete structures by over 100 years
- Dry-Treat only uses silanes which produce alcohol. Dry-Treat sealer do NOT contain methoxy silanes which emit methanol and can cause blindness / death

DOWNLOADS:

[S-TECH 100Cci™ Specification Sheet](#)

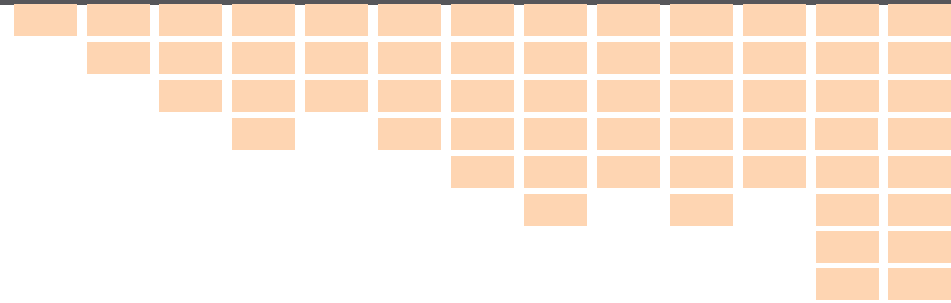
S-TECH 100Cci™ SDS: [USA](#) | [AUS](#) | [UK](#)

Test Results:

[NCHRP244 series ii, immersion of concrete cube test \(Conducted on very high density 69 MPa structural concrete\)](#)

- Reduction in absorption of water after 72 hour immersion: >95%
- Reduction in absorption of NaCl solution after 72 hour immersion: >97%

PRODUCT SELECTOR



By Material

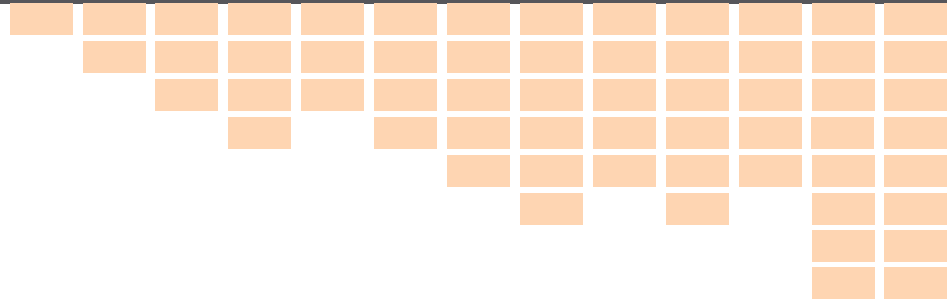
By Type of Protection

By Product Function

Application Rates

PRODUCT SELECTOR

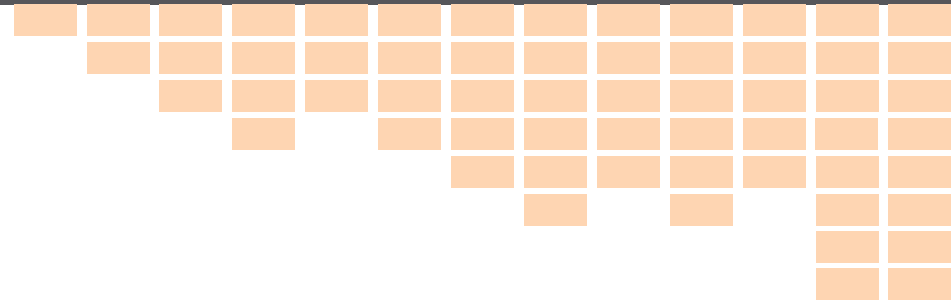
By Material



	STAIN-PROOF M™	S-TECH 40SK™	S-TECH 100M™	S-TECH 40M™	S-TECH CONCREME™	S-TECH 100C™	S-TECH 100Cci™
By materials							
Brick/Blockwork	Yes	Yes	Yes	Yes			
Engineered Concrete					Yes	Yes	Yes
Precast Concrete	Yes	Yes	Yes	Yes			
Terracotta/Salttillo	Yes	Yes	Yes	Yes			
Cultured Stone	Yes	Yes	Yes	Yes			
Grout	Yes		Yes	Yes			
Natural Stones:							
Basalt	Yes		Yes	Yes			
Bluestone	Yes		Yes	Yes			
Granite	Yes		Yes	Yes			
Limestone	Yes	Yes	Yes	Yes			
Travertine	Yes	Yes	Yes	Yes			
Sandstone	Yes	Yes	Yes	Yes			
Marble	Yes		Yes	Yes			
Slate	Yes		Yes	Yes			
Coral Stone	Yes	Yes	Yes	Yes			

PRODUCT SELECTOR

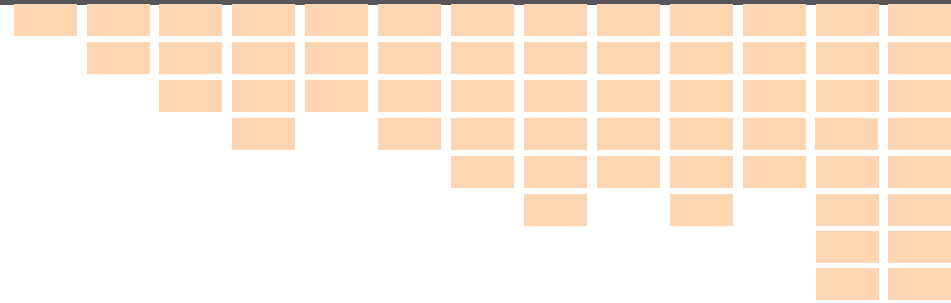
By Type of Protection



	STAIN-PROOF M™	S-TECH 40SK™	S-TECH 100M™	S-TECH 40M™	S-TECH CONCREME™	S-TECH 100C™	S-TECH 100Cci™
Surface Protection against							
Efflorescence	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Freeze-Thaw Spalling	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Salt Spalling	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Picture Framing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rebar Corrosion Inhibitor							Yes
Damp Migration	Yes	Yes	Yes	Yes	Yes	Yes	Yes

PRODUCT SELECTOR

By Product Function



	STAIN-PROOF M™	S-TECH 40SK™	S-TECH 100M™	S-TECH 40M™	S-TECH CONCREME™	S-TECH 100C™	S-TECH 100Cci™
Product Attributes							
Water repellence	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Oil Repellence*	Yes						
Consolidation		Yes					
Color Enhancement							
Apply over impregnated surface	Yes		Yes	Yes	Yes	Yes	Yes
Breathable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	15 Years	15 Years	20 Years	10 Years	30 Years	30 Years	30 Years

NOTE: Vertical surfaces require premium water repellence only.

*Horizontal surfaces exposed to food and other spills may also need oil repellence.

APPLICATION RATES

STAIN-PROOF M™, S-TECH 100M™, S-TECH 40M™		
Surface Type	sq ft/gal.	sqm/L
Basalt - Porous (Chinese)	280	7
Basalt - Dense (European)	480	12
Bluestone (Australian Basalt)	400	10
Bluestone (USA Boston Bluestone)	240	6
Brick	240	6
Poured Concrete	280	7
Precast Concrete	280	7
Concrete Paver (dry pressed)	160	4
Concrete Paver (wet cast)	280	7
Coral Stone	200	5
Granite Flamed	240	6
Granite Honed	320	8
Granite Polished	4800	12
Grout Lines	1200 linear feet	90 linear meters
Limestone Honed - Dense	280	7
Limestone Honed - Porous	200	5
Limestone Polished	400	10
Marble Honed	400	10
Marble Polished	600	15
Saltillo	200	5
Sandstone (Indian, hard)	280	7
Sandstone (soft)	160	4
Slate - Dense black	480	12
Slate	280	7
Terracotta dense	280	7
Terracotta porous	200	5
Travertine honed	280	7
Travertine polished	400	10

S-TECH 40SK™		
Surface Type	sq ft/gal.	sqm/L
Bluestone (USA Boston Bluestone)	200	5
Brick	240	6
Poured Concrete Medium	240	6
Concrete Paver (dry pressed)	160	4
Concrete Paver (wet cast)	240	6
Coral Stone	200	5
Grout Lines	1200 linear feet	90 linear meters
Limestone Honed - Dense	240	6
Limestone Honed - Porous	200	5
Limestone around salt water pool	Dip Seal	
Saltillo	200	5
Sandstone (Indian, hard)	240	6
Sandstone (soft)	160	4
Sandstone around salt water pool	Dip Seal	
Terracotta porous	200	5
Travertine honed	280	7
Travertine around salt water pool	Dip Seal	

ENGINEERED CONCRETE		
S-TECH CONCREME™	120-240sq ft/gallon	3 - 6 sq meters/L
S-TECH 100C™	68-240 sq ft/gallon	1.67 - 6 meters/L
S-TECH 100Cci™	68-240 sq ft/gallon	1.67 - 6 meters/L

Total Application Rates include all coats. So, if for e.g. the total application rate is 200 sq. ft. per gallon (5 sq. m. per liter), and you are applying 4 coats to a vertical surface, you will apply each coat at approximately 800 sq. ft. per gallon (20 sq. m. per liter).