



Dulux®

Acratex®

AcraShield®

High Build
Membrane
Protection

Worth doing, worth Dulux.®

AcraShield helps protect masonry construction against environmental and climatic conditions, to keep facades looking great for longer.

Dulux® Acratex® AcraShield® is a high performance elastomeric membrane coating, creating a flexible barrier over masonry and concrete facades, reducing damage caused by exposure to:

- Coastal salt air
- Humidity
- Climatic conditions
- CO₂ and Cl⁻

AcraShield has a

**HIGH
DFT**

Dry Film Thickness
of 150 microns
in 2 coats
making it up to

**3X
THICKER**

than standard
exterior paint^

^When applied at
recommended film thickness

Protection of reinforced concrete

The anti-carbonation properties of AcraShield add additional protection against the corrosion of steel reinforcement and concrete spalling.

CO₂

Cl⁻

Reduces dirt and mould buildup

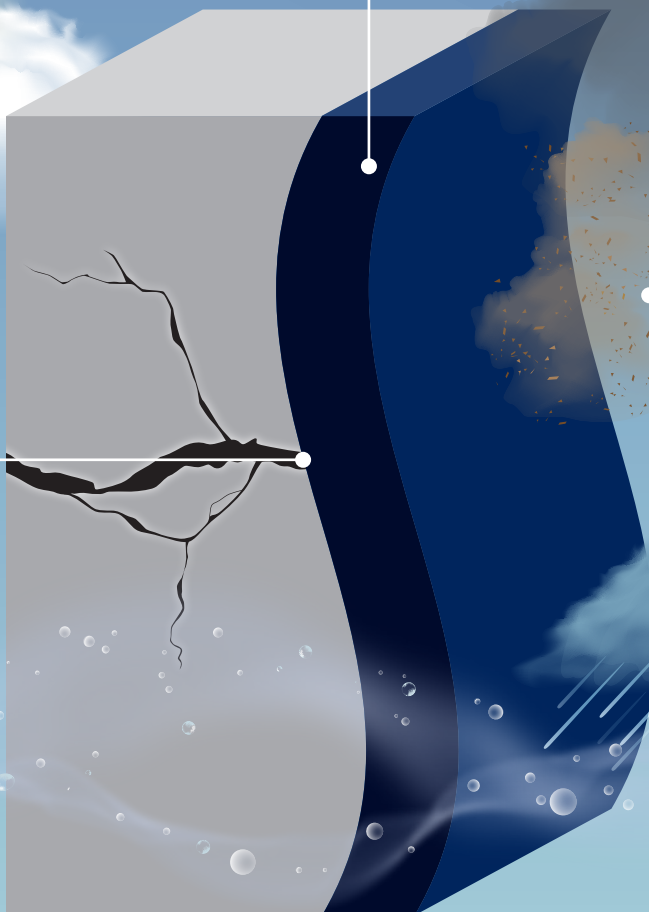
Reduces dirt accumulation leading to mould growth keeping your facade looking great for longer.

Crack Bridging

AcraShield delivers a flexible coating up to 3 times thicker than decorative paint. Two coats (150um) of AcraShield can bridge cracks up to 0.99mm (6.6 x DFT).

Weatherproofing

AcraShield helps prevent water ingress while still allowing the structure to breathe.



Crack Bridging

PROTECTING AGAINST MOISTURE INGRESS

AcraShield maintains a continuous flexible film during building movement and stresses. As these stresses build up and masonry inevitably cracks, AcraShield has the thickness, strength and flexibility to "bridge" forthcoming cracks, reducing moisture ingress.

Crack Bridging

TEST METHOD: AS 4548.5/F

2 coats (150um)
of AcraShield
Low Gloss or Matt can

BRIDGE CRACKS

up to

0.99mm 6.6× DFT

CRACK BRIDGING IS A COMBINATION OF FILM THICKNESS, ELONGATION AND TENSILE STRENGTH

Elongation

Measures the films elasticity and its ability to bridge and cover cracks without breaking, after the crack occurs.

TEST METHOD: AS 1145.5

ACRASHIELD	TEST RESULTS
Low Gloss	352%
Matt	255%

Tensile Strength

Measures a film's internal strength: how much force a coating can withstand without breaking as the crack occurs.

TEST METHOD: AS 1145.3

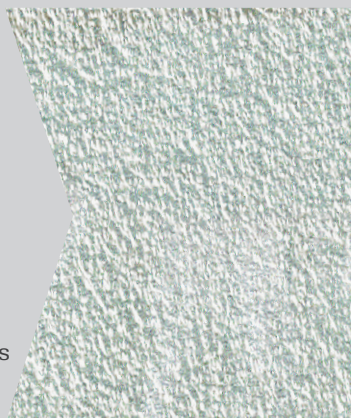
GLOSS LEVEL	TEST RESULTS
Low Gloss	3.7MPa
Matt	2.3MPa

How cracking occurs

Protection of masonry substrates requires a membrane coating designed to withstand daily forces of:

- Temperature changes - expansion and contraction
- Load bearing stresses
- Building movement
- Concrete mixture variations

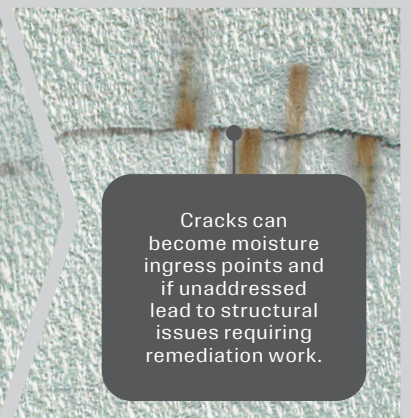
NEW MASONRY



CRACK EMERGES



CRACK MOVEMENT CONTINUES



Cracks can become moisture ingress points and if unaddressed lead to structural issues requiring remediation work.

Weatherproofing

BREATHABILITY AND DURABILITY

AcraShield helps prevent water ingress while still allowing the structure to breathe and moisture contained within the underlying masonry to escape. While remaining breathable, AcraShield reduces the underlying structures exposure to humidity, temperature changes, rain and salt air.

AcraShield has been tested and meets the performance criteria for weatherproofing. AcraShield complies to AS4548.2 and can be used as the topcoat to a multi-layered system as defined in AS3700 for Masonry Structures & AS5146.3 for Reinforced Autoclaved Aerated Concrete.

Water Vapour Transmission

Excellent breathability and moisture management allows water vapour (humidity) to escape through the substrate.

TEST METHOD: AS 4548.5/C

ACRASHIELD	TEST RESULTS
Low Gloss	36g/m²/24h
Matt	45g/m²/24h

AcraShield has EXCELLENT BREATHABILITY reducing blistering, delamination and efflorescence.

Water Transmission Resistance

Water and moisture related damage in masonry substrates can lead to significant spalling, blistering, and peeling.

TEST METHOD: AS 4548.5/B

IN
24hrs
OVER
1m²
of AcraShield
<1gram
of water will
penetrate the
coating
per KPa of pressure

Wind Driven Rain (Cyclone Testing) RESISTANT TO WEATHER

This test aims to determine how well building components (such as walls, windows, and doors) withstand wind driven rain during cyclonic events.

TEST METHOD: AS 4548.5/B

ACRASHIELD	TEST RESULTS
Low Gloss	< 1g/24h/m²/KPa
Matt	

AcraShield PASSED
with no leaks.



Protection of reinforced concrete

ANTI-CARBONATION

AcraShield is a barrier coating to help protect against the ingress of Carbon Dioxide (CO_2) and Chlorine Ions (Cl^-) reducing the risk of steel reinforced corrosion and breakaway.

Carbon Dioxide Diffusion

TEST METHOD: AS 4548.5/D

2 coats (150um) of AcraShield is equivalent to an additional

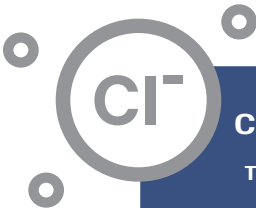
61cm

OF EQUIVALENT CONCRETE COVER for the purposes of carbonation protection OVER THE REINFORCEMENT

2 coats (400um) of AcraShield with a texture roller is equivalent to an additional

111cm

OF EQUIVALENT CONCRETE COVER for the purposes of carbonation protection OVER THE REINFORCEMENT

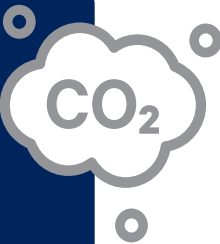


Chlorine Ion Diffusion

TEST METHOD: AS 4548.5/E

ACRASHIELD	TEST RESULTS
Low Gloss	4.8 x10-14 m ² /s (ave)
Matt	2.4 x10-14 m ² /s

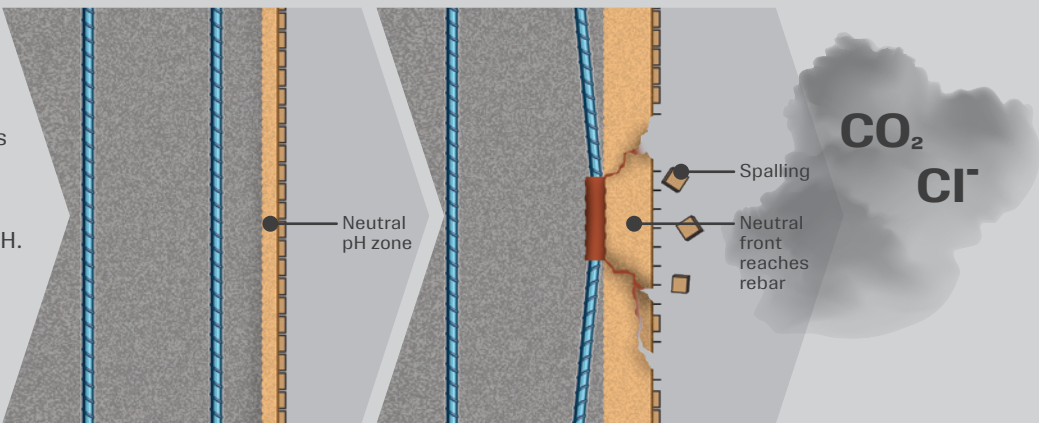
AcraShield is effective in limiting Cl^- penetration.



PROTECTIVE ALKALINE ENVIRONMENT CORROSION

Carbonation of Concrete

Concrete is an alkaline environment which helps protect steel reinforcement (rebar) from corrosion. Over time carbon dioxide, chlorine ions in salt air and other environmental pollutants penetrate the concrete surfaces and migrate deeper into the concrete neutralising the concrete's pH. The neutral pH creates a corrosive environment around the rebar, which can corrode leading to spalling. This can "blow" the concrete apart, cracking and often delaminating sections from around the rebar.



AcraShield at a glance

AcraShield has a

**HIGH
DFT**

Dry Film Thickness
of 150 microns
in 2 coats

making it up to

**3X
THICKER**

than standard
exterior paint[^]

[^]When applied at
recommended film thickness

WHICH PROVIDES



Crack Bridging

Bridges cracks up to 0.99mm (6.6 x DFT)
reducing moisture ingress and the
appearance of new cracks.



Weatherproofing

Reduces moisture ingress while allowing
the underlying substrate to breathe.



Anti-Carbonation

2 coats (150 micron DFT) of AcraShield
Low Gloss adds the equivalent of 61cm
of concrete cover for the purposes of
carbonation protection.



Improved system performance

2 topcoats of AcraShield extends your
Acratex Texture System performance
to 15 years when applied to a Full Dulux
Acratex System.*



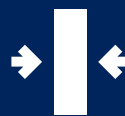
Full Dulux colour offer

AcraShield is available in all Dulux colours.
Providing better colour accuracy when
compared to tinted texture with no topcoat.



**6m²/L[†]
Spread Rate**

[†]Subject to surface porosity.



**75 micron
Minimum Dry Film
Thickness per coat**



**2hrs
Recoat**

*A 15 year warranty against peeling, cracking and delamination applies when two coats of AcraShield are applied as part of a full Dulux Acratex system, subject to the terms of the warranty. A copy of the warranty terms and conditions can be found at dulux.com.au/acratex-warranty

Learn more at acratex.com.au
or call Acratex Customer Service **13 23 77**

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