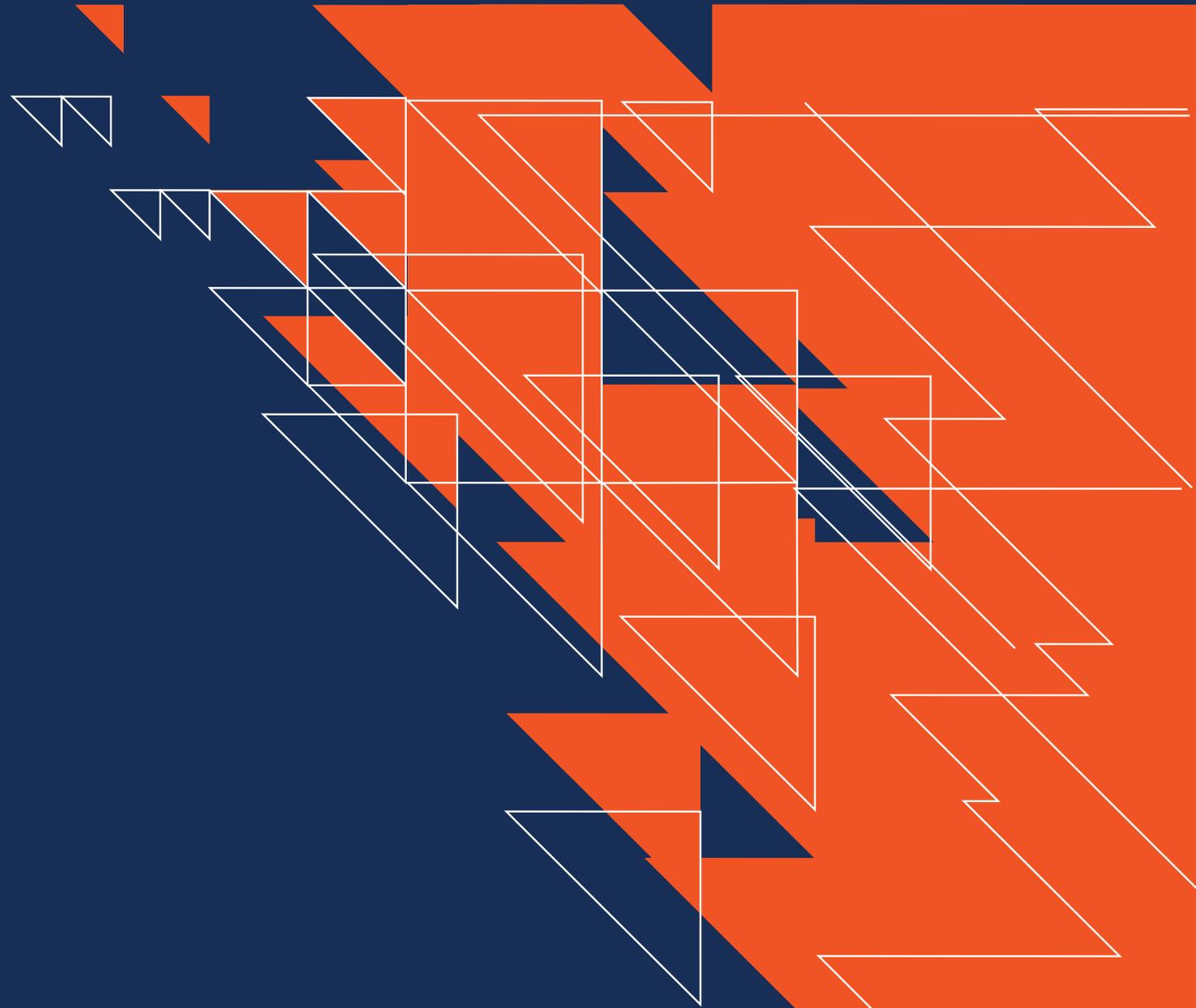




# Crommelin

## Waterproofing & Sealing



# Fibroseal System

Controlled treatment and encapsulation  
of asbestos roofs

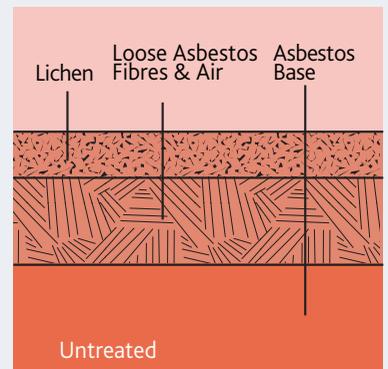
# Fibroseal

## The Problem



Asbestos surfaces undergo a weathering process after many years of exposure and a loose surface layer develops which, on roofs, becomes colonized with dark coloured lichen. The lichen attacks the cement causing exposure of the asbestos fibres. The surface becomes unstable, the asbestos sheeting is weakened and the darkened colour causes a substantial increase in roof cavity temperatures. The traditional process for coating asbestos roofs was to clean the roof with high-pressure water to remove all lichen and loose asbestos fibres. This procedure was eventually banned on health grounds, creating a need for a system that could be applied straight to the degraded asbestos without disturbing the surface.

The unstable nature of weathered asbestos surfaces is a cause of some concern in the community and the **Fibroseal System** has been developed to minimise the danger of hazardous airborne fibres and provides an attractive durable finish.

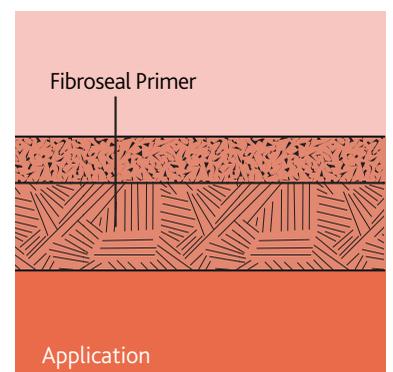


## The Solution



Over 25 years ago, Crommelin addressed this problem and developed the **Fibroseal System** to achieve the following:

- The binding and encapsulation of asbestos fibres.
- Avoiding costly downtime associated with replacement of asbestos roofs.
- A significant reduction in roof cavity temperatures resulting in savings in building cooling costs.
- An extension of the service life of asbestos structures.
- A completely water based and truly environmentally friendly system.
- Provides a rejuvenated appearance in a range of decorative colours.



## The System

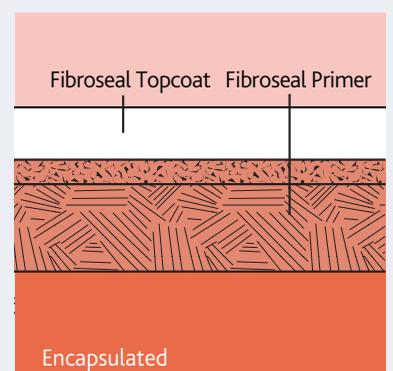


Through extensive research and development, Crommelin developed **Fibroseal Primer**. The primer soaks through the lichen and degraded asbestos down to the sound base material, binding these unstable elements.

**Fibroseal Topcoat** is then applied to the primed surface to provide a durable, decorative, UV resistant protective coating. Active ingredients in Fibroseal Topcoat also resist the growth of moss and lichen.

The **Fibroseal System** has been specified and used extensively throughout Australia for over 25 years in areas such as government, local councils, commercial industry and schools etc.

Project certification and references are available upon request.



# Application and Warranty

## Recommended application procedure

An applicator, with technical support from Crommelin, should undertake the following:

- An assessment of the state of the existing asbstos.
- Provide a specification to encapsulate the assessed surface.
- Application of the specified number of coats of **Fibroseal Primer**.
- A re-assessment of the complete binding of the asbestos fibres by the **Fibroseal Primer** (further **Fibroseal Primer** may be required).
- Application of the specified number of coats of **Fibroseal Topcoat**.

## Warranty

The Fibroseal System of primer and topcoat will give many years of protection to all asbestos surfaces. When quality assurance procedures are followed and the **Fibroseal System** is applied by an experienced applicator, a warranty may be issued ensuring the integrity of the system for a period of 10 years.

## The management and control of asbestos in the workplace

It is a duty of care for the person with control of a premises to develop, implement and maintain an asbestos management plan. The purpose of an asbestos management plan is to assist with the control of premises to comply with the asbestos prohibition and prevent exposure to airborne asbestos fibers while asbestos remains in the workplace. The ultimate goal should be to have all asbestos materials removed from site. Where removal is not viable, safety measures should be put in place to reduce the risk of asbestos fibres by enclosure, encapsulation or sealing.

The **Fibroseal System** provides building owners with a proven alternative to roof replacement that assists in addressing the duty of care requirements relevant in each state.

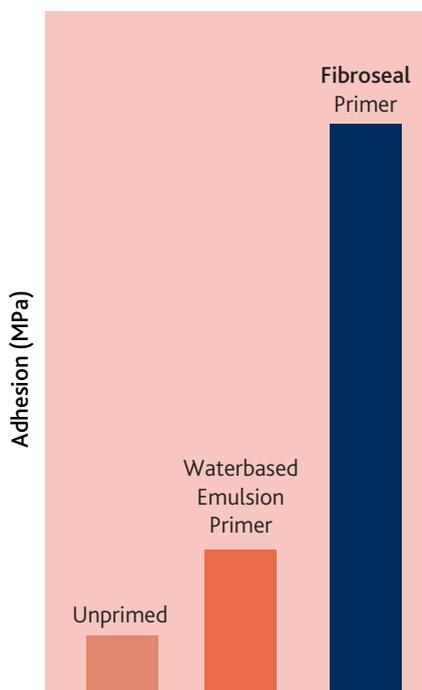
Encapsulation using the **Fibroseal System** is both effective and an economic alternative to roof replacement

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REF: NOHSC Code of Practice 2018 (2005).

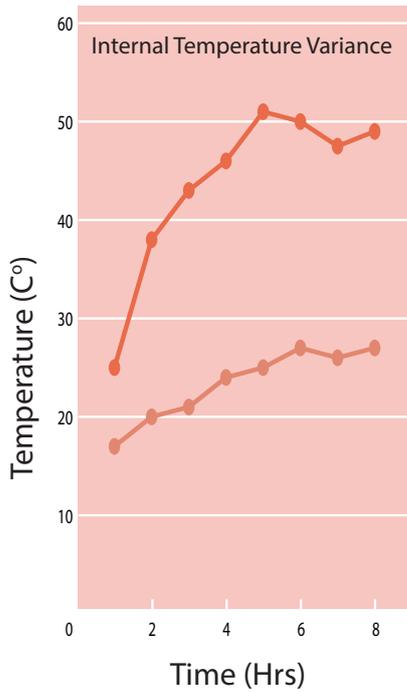
## Technical Data

Effect of Primer on adhesion of acrylic coating to weathered asbestos



Test Description	Results
Tensile strength	>3.06 MPa
Elongation	329%
Adhesion Strength	1.8 MPa
Low Temperature Flexibility (-18°C)	Excellent
180° Mandrel Bend Test (3min)	Pass - No cracking
Crack Bridging Ability	4.3 x Dry Film Thickness
Water Resistance - Swelling(24 hours) - Moisture Vapour Transmission Rate	7.8% 43g/m <sup>2</sup> /day
Accelerated Weathering Resistance	Excellent. No evidence of cracking, yellowing or loss of flexibility
Dirt Pick Up Resistance - 1 year exterior exposure	Excellent
Mould and Mildew Resistance	Does not support mould or mildew growth

# Effect of coating on reducing roof cavity temperature

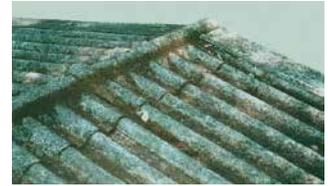


External Temperature (shade)	20°C	29°C	32°C
<b>Roof Cavity Temperatures</b>			
Roof Cavity - Uncleaned Roof	41°C	59°C	61°C
Roof Cavity - Coated Roof (white)	24°C	34°C	38°C

\*Taken from: Brown S.K., Souprounovich A.N., "Cleaning and Painting of Weathered Asbestos Roofing." Surface Coatings Australia May 1989

The above results are a product of inhouse testing based on current industry standards. It should be noted there is currently no APAS regulation regarding the insulating/heat reflective properties of roof coatings.

- Reflective properties aid in reducing internal air temperatures by up to 20°C.
- Aids in reduction of CO2 emissions.
- Energy and cost efficient.
- Resistant to chemical attack.
- Weatherproof and lightfast.
- Good resistance to alkali.
- Fungal and algal resistant in high humidity environments.
- Excellent dirt pick up resistance.
- Elastomeric, remaining flexible even after weathering.
- Tough - high tensile strength and hardness.
- Resistive to impact and light traffic damage.
- Low VOC.



Uncoated



Coated

## Crommelin Heritage

Crommelin is the leading Australian waterproofing and sealing specialist, with a trusted 50 year history of providing high quality and innovative products to the commercial construction industry.

All Crommelin products are specifically engineered to perform in conjunction with Australian construction materials and under harsh Australian environmental conditions.

## Innovation

Crommelin is at the forefront of technical advancement within the waterproofing and sealing industry. Our team of industrial chemists continue to develop cutting edge technologies, raising the standards of consistency, performance and reliability.

## International Commercial Expertise

The Crommelin product range is continually specified on major residential, commercial and infrastructure projects nationally and internationally. Crommelin products are specified for use globally and have been successfully applied in numerous internationally acclaimed projects.

## Specifications

All project requirements and site conditions are unique. Crommelin actively partners with customers to provide product and specification information individually suited for each job.

Customised product development, specification, education, application and on-site technical advice are just a few areas in which Crommelin can support your project along every step of the way.

## Service & Support

Crommelin customers are supported by a highly trained team of commercial business development professionals. Products are available nationally, with state service centres located in NSW, QLD, VIC and WA.

A 7 day technical support hotline is also available, to assist with product selection and application enquiries.

While the information contained herein is to the best of our knowledge, true and correct at the time of press, no warranty is given or implied in connection with and recommendation of or suggestion made by us or our representatives, as the conditions of use and any labour involved in application are beyond our control. Furthermore, the accuracy of the information contained herein may alter with any technical improvements.

## Product Warranty

All Crommelin products are engineered to deliver long term performance and durability. In conjunction with project specifications, on-site support and maintenance schedules, Fibroseal warranties are available for up to 10 years.

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**Crommelin**  
 Waterproofing & Sealing



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