

# ULTRA PRIMER & FIBRE SEAL

## ASBESTOS COATING SYSTEM

**Ultra Prime** and **Fibre Seal** are distributed in New Zealand by: PEEL AWAY NZ LIMITED, 23 SHADDOCK STREET EDEN TERRACE 1021, Auckland NZ free phone: 0800 787 472

### ASBESTOS COATING SYSTEM

#### Asbestos background:

Category: Silicate minerals

Optical properties: Biaxial

Asbestos is a set of naturally occurring silicate minerals, which all have in common their eponymous asbestiform habit i.e. long, thin fibrous crystals, with each visible fibre composed of millions of microscopic “fibrils” that can be released by abrasion and other processes.

Warning: It is essential that asbestos be handled by trained personnel.

Asbestos can pose a health hazard when it is disturbed and asbestos fibres become airborne where they can be inhaled. Undamaged non-friable asbestos is best left undisturbed and managed in place. If done improperly, removing asbestos has the potential to create a greater health risk than leaving it undisturbed.

Exposure to asbestos can cause severe diseases such as lung cancer or mesothelioma, a rare and very aggressive form of cancer which affects the outer lining of the lungs (the pleura). However, asbestos is dangerous only when airborne fibres are inhaled or ingested.

The most common way for asbestos fibres to enter the body is through breathing. In fact, asbestos containing material is not generally considered to be harmful unless it is releasing dust or fibres into the air where they can be inhaled or ingested. Asbestos is most hazardous when it is friable.

Breathing in air containing asbestos fibres can lead to asbestos-related diseases, mainly cancers of the lungs and chest lining. Past exposure to asbestos currently kills around 4000 people a year in Great Britain alone.

**Any work carried out on asbestos in New Zealand should be done according to Health and Safety at Work (Asbestos) Regulations 2016 (LI 2016/15)**

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### **Before you start:**

Be sure all appropriate safety precautions are taken and protective breathing equipment is worn and that all regulations are followed according to Health and Safety at Work (Asbestos) Regulations 2016 (LI 2016/15)

Be sure the surface of the asbestos is cleaned by the appropriate chemical cleaner and as much moss, mould, lichen, general industrial contamination etc is removed. No abrasive cleaning methods should be used.

It is preferable for the substrate to be as dry as possible, a moisture content below 12% is desirable. Although the water can escape downwards though the sheet excess water will extend the system dry time and make the coating vulnerable to heavy dew or an early shower.

### **Ultra Primer**

Ultra Primer is a low viscosity nano particle primer specifically designed to penetrate and bind asbestos. It forms a perfect surface for the Fibre Seal to adhere to. This should be applied at 8 square meters per litre.

### **Fibre Seal**

Fibre Seal is a high gloss hydrophobic finish coat and should be applied at 4 square meters per litre to give a film thickness of 200 microns wet film build. The correct film thickness is important as it will impact on the life and effectiveness of the coating. Fibre Seal is available in a variety of colours but its recommended colour is white.

White is recommended along with a high gloss as this combination reflects the most light to minimise heat build up in the asbestos sheet. Minimising the heating effect reduces the movement (expansion and contraction) of the asbestos and reduces the lapped sheets rubbing together so creating asbestos dust.

Available in White and Grey.

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### Coating Procedure

1. Clean roof without using abrasion (Quaternary or Sodium Hypochlorite)
2. Apply Ultra Primer at specified spread rate
3. Apply waterbased Epoxy primer to similarly cleaned gutters if asbestos too
4. Apply Fibre Seal at specified spread rate
5. Be sure to chemically wash every year preferably using a quaternary to maintain optimal coating reflective performance

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### Asbestos Exterior Cladding Coating Data Sheet

#### Description:

**Ultra Prime and Fibre Seal** combined together have unique properties ensuring excellent performance on properly prepared asbestos surfaces. The special oxide pigments incorporated in **Fibre Seal** provide high UV resistance and gloss retention. **Fibre Seal** also has an in film additive that will help to slow the build up of moss and mould.

#### Physical Properties

##### Ultra Prime

<b>Resin Type:</b>	Modified Acrylic
<b>Solvent:</b>	Water
<b>Colour:</b>	Clear
<b>Drying time:</b>	2 hours @ 18°C
<b>Recoat time:</b>	3 hours @ 18°C
<b>Dry Film Thickness:</b>	80 - 100µ wet
<b>No. of coats:</b>	1
<b>Thinning &amp; Cleaning:</b>	Does not require thinning. Water clean up

##### Fibre Seal

<b>Resin Type:</b>	Modified Acrylic
<b>Solvent:</b>	Water
<b>Colour:</b>	White or Grey
<b>Finish:</b>	Available in Gloss only
<b>Drying time:</b>	2 hours @ 18°C
<b>Recoat time:</b>	3 hours @ 18°C
<b>Dry Film Thickness:</b>	200µ wet 1 coat
<b>No. of coats:</b>	1
<b>Theoretical Coverage:</b>	5m <sup>2</sup> per litre to attain 80µ DFT.
<b>Primer Needed:</b>	Yes
<b>Thinning &amp; Cleaning:</b>	Does not require thinning, Water clean up.

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### Performance:

- Excellent adhesion, water and UV resistance.
- Very good mould resistance.
- Excellent weather resistance.

### Limitations:

- Do not apply when temperature is below or expected to fall under 10°C.
- Unsuitable for areas of ponding water.
- Do not apply when rain is forecast within 8 hours of the coatings application
  
- Where old fixings are rusted a rust converter followed by an oil based rust primer are recommended to prevent further rusting.

### Application:

#### For Best Results:

1. Use airless tip size 0.013" or 0.015" at 1500 to 2000 psi.
2. To achieve even film builds spray apply using the cross hatch method.
4. Do not exceed the recommended wet film thickness.

**Substrate Maintenance:** When the asbestos coating system has been applied at the specified film thicknesses, correct maintenance of the coating system is required to achieve the minimum 10 year life. The coating should be chemically washed for the removal of industrial dirt plus moss and mould annually.

11/19/2018

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