

METHODOLOGY FOR THE TREATMENT OF ASBESTOS SURFACES

1. SAFETY

For your own health reasons, it is important to treat asbestos with respect. **DO ALL YOU CAN - NOT TO DISTURB ANY FIBRES.** A filtered respirator and safety overalls should be worn at all times. Rubber soled shoes should also be worn, because they provide good grip on the roof and also rubber does not adhere to the coating when you are walking on it. If you hose any part of the roof for any reason, remember that the surface will then **be very slippery.**

2. SURFACE PREPARATION

FIBROSEAL PRIMER is designed to be applied to weathered asbestos cement sheeting with no surface preparation, however, it may be necessary in some instances to carry out some minimal preparation to remove loose debris, previous treatment, excessive mould and lichens, bird droppings etc.

Removal of excess contaminants shall be carried out without allowing any fibre to be released into the atmosphere or cause a risk to any person and the removed debris is collected and disposed of in accordance with occupational health and safety regulations. The removal by mechanical means of debris should be carried out without disturbing the underlying loose asbestos fibres. Use flat knives to separate large lumps of moss or bird droppings from the surface.

Oil, grease or other water repellent (i.e. silicone) surface contaminants should be removed or neutralised by solvent, taking care not to release respirable fibres.

3. REPAIRS

All repairs of fastenings, flashings, cracks, holes and replacement of severely damaged (structurally unsound) sheets is to be carried out prior to commencement of treatment. Cracks needing treatment to achieve waterproofing should be treated as follows: -

After the roof has been primed, apply FIBROSEAL TOPCOAT to cracked areas etc. While this is still wet, embed 100mm wide REINFORCING FABRIC (Scrim) over the crack and overcoat with FIBROSEAL TOPCOAT, and wet out the reinforcing fabric thoroughly. Allow to dry.

4. ROOF GRADING ASSESSMENT

Apply a 200mm x 24mm strip of masking tape to the surface. Ensure that the tape is firmly adhered to the surface by applying a light rubbing motion along the length of the tape. When evenly adhered, remove tape using a quick smooth

continuous pulling action. Attach the tape with adhesive side against a clear plastic/acrylic or glass sheet that will allow examination with an 8x-magnifying lens.

By visual assessment of tape tests from several areas of the roof, a rating is determined as follows: -

- (a) A rating of 1 indicates that the surface condition is as new, with no visible signs of deterioration.
- (b) A rating of 2 is assigned when the surface does not look new. There are small cracks on the surface and there are a few fibres visible.
- (c) A rating of 3 would indicate deterioration of the surface with cracking or evidence of a few loose fibres.
- (d) A rating of 4 indicates considerable evidence of deterioration, with cracking of the surface, sloughing, ready release of loose fibres and small numbers of fibre bundles visible.
- (e) A rating of 5 indicates extensive deterioration of the surface, large numbers of fibre bundles visible over most of the sheeting, extensive sloughing and flaking of material and pieces of matted material hanging from the edge of the sheet.

5. THEORETICAL COVERAGE RATES FOR ASSESSED ROOF GRADES

Grades 1, 2 and 3

ENCAPSULATING

SUPER SIX PLAN AREA

FLAT x 20%

1st coat of FIBROSEAL PRIMER
 1st coat of FIBROSEAL TOPCOAT
 2nd coat of FIBROSEAL TOPCOAT

3m²/L
 5.5m²/L
 5.5m²/L

Grade 4

ENCAPSULATING

SUPER SIX PLAN AREA

FLAT x 20%

1st coat of FIBROSEAL PRIMER
 1st coat of FIBROSEAL TOPCOAT
 2nd coat of FIBROSEAL TOPCOAT

2.5m²/L
 5m²/L
 5m²/L

Grade 5

ENCAPSULATING

SUPER SIX PLAN AREA

FLAT x 20%

1st coat of FIBROSEAL PRIMER
 2nd coat of FIBROSEAL PRIMER
 1st coat of FIBROSEAL TOPCOAT
 2nd coat of FIBROSEAL TOPCOAT

2m²/L
 6m²/L
 4m²/L
 4m²/L

6. COVERAGE

All spreading rates given are theoretical for flat surfaces plus 20% for the super six profile and exclude allowances for over spray and other loss.

The various profile asbestos sheets need to be converted to flat surface areas and also appropriate loss allowances to be taken into consideration (wastage, loss due to wind etc) to calculate actual spreading rates and material requirements.

Contact Crommelin for further information on these calculations.

7. APPLICATION OF FIBROSEAL PRIMER

FIBROSEAL PRIMER is water based and designed for use on weathered asbestos cement sheeting which is friable. **The surface to be treated must be dry or near dry.** A moisture meter reading below 15% moisture content is acceptable.

The FIBROSEAL PRIMER is to be applied as a flood coat by a low pressure (maximum 30 psi) non-atomised spray application.

Equipment may be hand operated garden spray, HVLP spray unit or an airless spray fitted with specially designed double-headed non-atomising spray fitting. We suggest that for extensive areas this modified airless set up be used, as it is the most productive.

The application rate of FIBROSEAL PRIMER will vary depending on the level of friability of the asbestos sheeting. Sheets of a low to moderate friability may require only one coat at 3m²/L, while highly friable sheets may require a second application at 6m²/L.

After the FIBROSEAL PRIMER has dried, test that the surface has been rendered non-friable. Re-perform the roof grading tape test assessment. No fibres, or a small number - say 6 to 10 fully encapsulated fibres may be present. If large numbers of fibres are present the FIBROSEAL PRIMER application must be repeated and re-tested for friability.

Please Note: This should be applied as a flood coat ensuring that the sides of the corrugated sheets are well covered. It is better to spray the PRIMER up and down the sheets, rather than across, as it provided better coverage.

FIBROSEAL PRIMER will dry in 20 minutes to 2 hours depending on weather conditions, however, allow a minimum of 4 hours before recoating or over coating with FIBROSEAL TOPCOAT. Do not apply the FIBROSEAL PRIMER at low temperatures (10⁰C) or relatively high humidity (85%) or when rain is likely within 4 hours of application.

Apply FIBROSEAL TOPCOAT no later than 10 days after application of FIBROSEAL PRIMER.

8. APPLICATION OF FIBROSEAL TOPCOAT

FIBROSEAL TOPCOAT is a water based acrylic coating designed for long term UV protection and weather resistance in white and selected Colorbond® colours.

Apply by airless spray (small areas may be applied by brush or roller, but multiple application is necessary to build up film thickness) to a wet film thickness of 300 microns. Ensuring the specified application rates will achieve this build. Use a piston driven airless spray unit with a minimum of 30:1 pump ratio fitted with 80 mesh intake and line filters and a spray tip around 21 thous (525 microns) or bigger with a 40 degree fan. We suggest that a 600mm extension be used on the gun to be able to maintain the tip approximately 300mm from the surface without excessive operator fatigue.

Application should be based on a 30-50% overlap on each pass. The operating pressures should be adjusted so that good atomisation is obtained and a smooth finish is achieved. Special attention should be made to achieve complete coverage of the raised surfaces of lichen.

Asbestos either on roofs, walls or fences can have many variables that affect it. These include not only the lichen and moss etc that attaches itself to it, but also the air contaminants local to that area and the variety of trees in the near vicinity that may drop oily leaves etc on it. For these reasons, some shadowing may occur.

9. SAFETY

Applicators must adhere to all relevant and applicable occupational health and safety guidelines as required by statutory authorities.

10. CLEANING

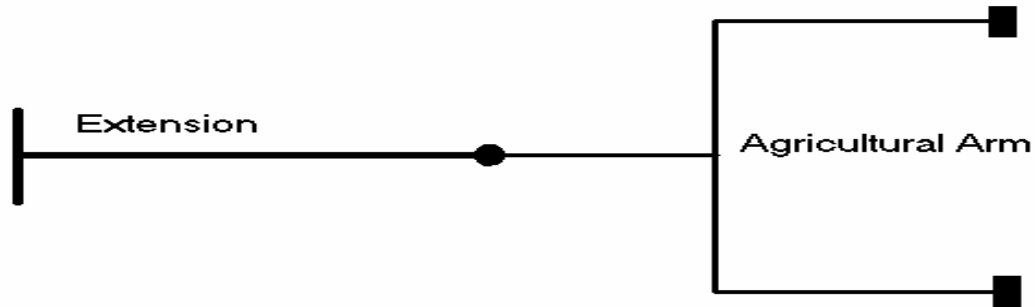
All equipment should be cleaned with water before the material dries.

11. APPLICATORS

Equipment: -

(a) Primer

Low pressure – agricultural arm.



(b) Topcoat

High viscosity coating. Heavy duty spray machine – slow stroking hydraulic drive machine are ideal – or similar e.g. Speeflo, Power Twin 5500.

Operating Pressure	:	(400 – 3300) PSI
Gun / Capacity	:	2 guns @ 0.026
Max Delivery	:	4.7L (1.25gpm)
Max Hose Length	:	91m

Spray Tips

Either :	721
:	821
:	1021

12. ACCESSORIES

- Long suction hose on spray machine to draw from bottom of 44 gallon drum, with large filter attached.
- Paint mixer
- Drum cleaner (spatula)
- Scrim
- Large heavy duty screwdriver