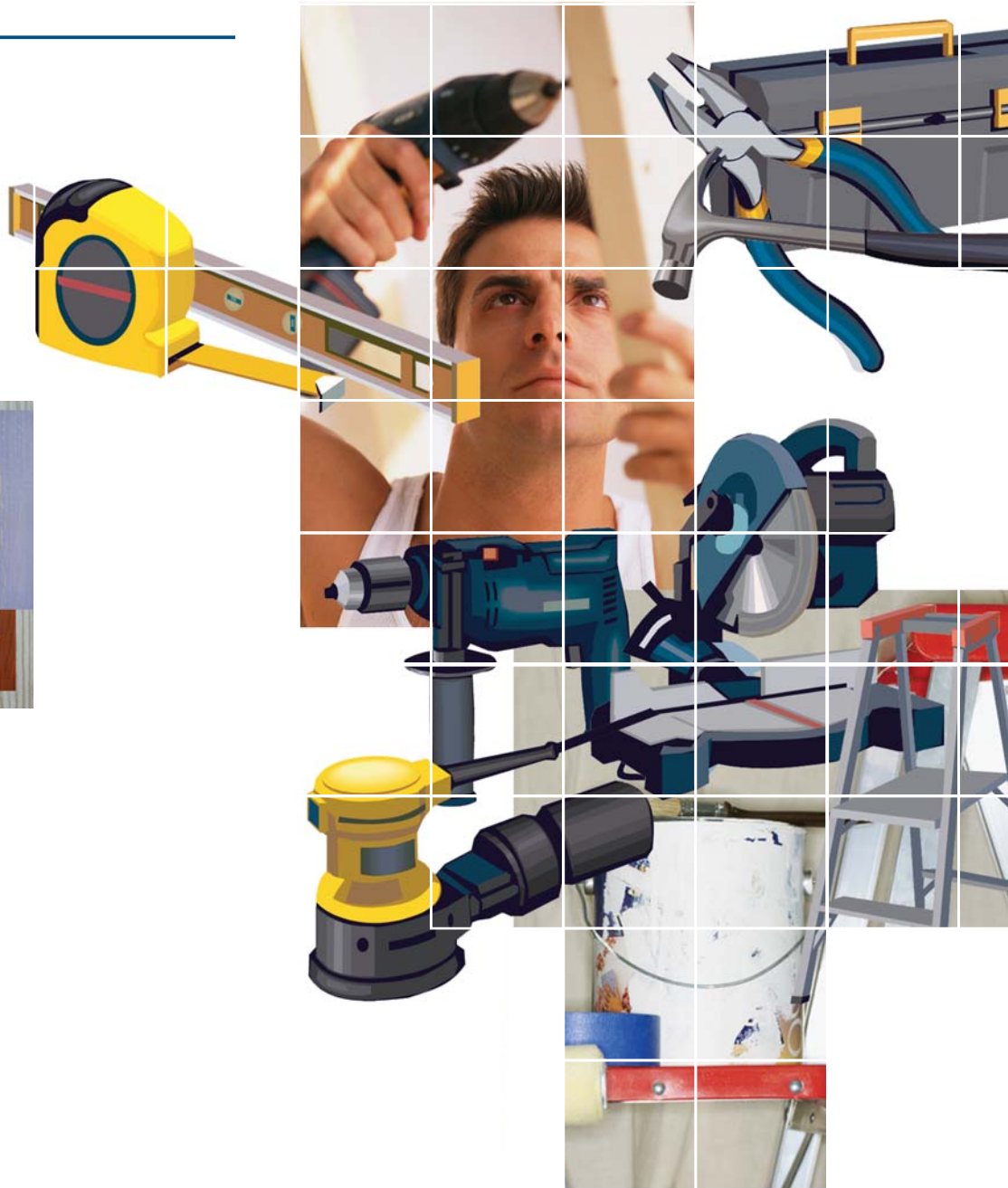


**nutec**<sup>®</sup>  
ROOFING AND CLADDING SOLUTIONS

# Finishing & Maintenance



## Colour Makes the Difference

EVERITE Nutec products are manufactured from a **composite material containing Portland cement or silica and organic fibres or a combination of organic and synthetic fibres and do not contain any asbestos fibres**. The combination of these materials which have considerable strength in their own right, form a strong and durable product.

Nutec products are normally supplied in their natural colour. The exceptions are Nutec roof slates which are factory coated with Multibrite paint.

While Nutec products under normal circumstances and weather conditions do not require painting to improve their durability, the application of colour can vastly increase the scope for individuality in design. Paint does however, protect cement-based materials against weathering and fungal growth.

Bright and cheerful colours can provide a form of uniqueness, even in mass housing, while colour also adds charm to larger projects such as schools and other community buildings, as well as commercial and industrial complexes.

Modern technology has brought about many excellent options in colour and textured applications where Nutec products form the ideal base for such applications.

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## Catalogue Information

The information contained in this catalogue serves as a general guide only and should not be accepted as the standard for all construction. Consult EVERITE for designs of a special nature.

This service is provided free of charge and without obligation, but architects, engineers and specifiers must finally approve the acceptability in terms of the design and construction criteria, as well as other implications.

- In preparing the roof for painting, use roof ladders or duckboards and do not walk directly on the roof sheets.

The process of cleaning usually involves a high water presence which will make the surface slippery, particularly where fungus is being removed, or old roofs are being cleaned.

**Working without roof ladders or duckboards can therefore be very dangerous.**

- Where walking on the roof surface cannot be avoided, walk on top of the purlins and not between them.
- Wear soft soled non-slip shoes for a better grip.
- Do not carry heavy loads across the roof.
- Continuous maintenance should be done to ensure that the structure or installation as a whole continue to perform well over time. These include the checking of fasteners, the cleaning of gutters, the protection of supporting structures, etc.

Paints and coatings have to be correctly applied to the product to ensure that the life expectancy of the coating can be fully realised.

A very important factor in the process is the adherence of the coating to the surface which is to be painted.

Extra effort in preparing the surface for painting is therefore a worthwhile investment in the process of achieving a quality application which will last.

### New Installations

For the successful painting of Everite products the surface must be free of loose matter, dust and grease.

- Loose matter and dust can be washed down with water.
- Oil and grease stains can be removed with a suitable solvent such as mineral turpentine.

### Weathered Sheets and Surfaces

Sheets that have been exposed may show some softening of the surface. If such sheets need painting, all softened materials must be removed down to a hard surface.

**This is best done by approved professional contractors using high pressure water spray equipment.**

Where a specialist contractor is not used, the following procedure is recommended:

- **Equipment required**

- Hard bristled scrubbing brush (**not a steel wire brush**).
- A hose pipe long enough to reach the extremities of the roof from the nearest pressure supply point.
- Two or more roof ladders.

**NB: As a safety precaution and because the sheets may become very slippery during the cleaning process, the use of roof ladders or duckboards is absolutely essential.**

- Firmly position the roof ladders or duckboards over the first section of the roof to be cleaned.
- Starting at the apex of the roof and using a continuous and generous flow of water, scrub and flush off all soft material and dirt.
- Allow to dry for at least 24 hours before painting.
- Contact paint manufacturers for recommendations on primer and top coats and application.

**IF UNCERTAIN ON CLEANING AND PREPARATION OF SHEETING SURFACES,  
CONTACT YOUR LOCAL EVERITE SALES OFFICE.**

### Cleaning Off and Treatment for Fungal Growth

Fungal growth on the exterior surfaces of buildings is a natural and prevalent phenomenon in certain humid areas.

Although this only covers small areas of South Africa, particularly the coastal zones, fungal growth does present a maintenance problem and in severe cases may restrict the free flow of water from the roof areas which could result in roof leaks.

In the case of unpainted Everite products, the formation of fungal growth may occur after some years of exposure. It may therefore be necessary to remove this growth in order to restore the product to its original appearance or to prepare the roof for painting.

Painting of Everite products will retard the fungal growth and is therefore, in addition to the decorative advantage, also a recognised practice for minimising further fungal growth.

Where sheets covered in fungus need painting, all fungal growth must be removed down to a clean surface.

**This is best done by approved professional contractors using high pressure water spray equipment.**

Where a specialist contractor is not used, the following procedure is recommended:

- **Equipment required**

- Technical or commercial grade crystalline copper sulphate. **Refer Page 6.**
- Hard bristled scrubbing brush (**not a steel wire brush**).
- A hose pipe long enough to reach the extremities of the roof from the nearest pressure supply point.
- Two or more roof ladders.

**NB: As a safety precaution and because the sheets may become very slippery during the cleaning process, the use of roof ladders is absolutely essential.**

- To assist the cleaning process the roof must be washed down with a 2% copper sulphate solution one week before cleaning commences. The copper sulphate will kill the fungus and loosen it from the roof surface.
- Firmly position the roof ladders over the first section of the roof to be cleaned.
- Starting at the apex of the roof and using a continuous and generous flow of water, scrub and flush off all soft material and dirt.

**NB: Under no circumstances should the fungal growth be removed without liberal application of water. This is particularly important at the bottom edges and gaps between adjacent roofing sheets where the fungus must be thoroughly cleaned out. In the case of roofing slates, a jet of water must be forced up between the layers until the water flowing out runs clean, indicating the removal of all dirt. This may result in a slight spray of water penetrating the roof during the cleaning operation**

- Allow the roof to dry and seal. Apply primer with a brush or airless spray to get all fibres coated, preventing pinholes from appearing when applying the top coat.
- Allow to dry for at least 24 hours before painting.

**NB: Where the roof will not be painted, allow to dry after cleaning and paint over with a 2% copper sulphate solution which will inhibit the regrowth of fungus.**

- **Preparation of copper sulphate solution**

The copper sulphate solution should be prepared in the following manner:

- Technical or commercial grade crystalline copper sulphate (Blue Vitriol) can be purchased from some hardware merchants or any industrial chemical supplier.
- Completely dissolve 1kg of copper sulphate crystals in 45 litres of water.
- As a guide, 45 litres of this solution should be sufficient to complete a roof area of 500m<sup>2</sup>.

- **Application of copper sulphate solution**

The copper sulphate solution must be applied to the roof as soon as possible after the cleaning process, but only after the roof has been allowed to dry out. It should be applied in dry conditions as rain shortly after the application will reduce its effectiveness.

- **Continuous prevention of fungal growth**

At the first sign of regrowth of fungus, the process should be repeated after washing the roof off with clean water only

When using a pure acrylic PVA paint on new unpainted surfaces, it is not necessary to pre-dry the surface or apply a sealer. For achieving the best results it is in fact recommended that the EVERITE products be dampened evenly before the paint is applied, which will make the application easier, as well as reducing the amount of paint which will be absorbed. As an alternative the paint can be thinned down with 10% water before applying it to the dry EVERITE product. (Before thinning paint, the paint manufacturer should be consulted, as in certain paints thinning may result in a loss of quality).

Apply two coats of paint by brush, roller or airless spray. The first coat can be thinned if necessary.

Coating with pure acrylic roof paint must be done only when the surface temperature is between 10 and 50°C. The minimum drying time recommended before recoating is 1 hour at 23°C, but this should be confirmed with paint manufacturer.

EVERITE roofing products may be painted on one or both sides. If painted one side only, it must however, be the weather side. If only the underside is painted, bowing of the sheets may occur. Where bowing cannot be tolerated, both sides of the sheet must be painted, preferably with the same number of coats of the same paint type.

EVERITE products are highly alkaline and therefore only alkali resistant coatings may be applied without a primer.

### Choosing of Paints

Polyacrylic emulsion paints have been found to be the most suitable and cost-effective paints for use on Nutec-cement and fibre-cement materials. They are alkali resistant and can be applied directly onto the surface.

Good quality styrenated acrylic emulsion systems generally present a cheaper solution, but are less durable than good quality pure acrylics.

**NB: The recommendations of paint manufacturers for their specific products must be adhered to in all cases and they should be approached if more details are required**



## Introduction

At present all the products including roofing products manufactured by Everite have been converted to Nutec, which is the registered name for building products manufactured without asbestos.

## Recommended Procedures when working with building products

Although Nutec products are manufactured **without** asbestos as a raw material, it is nevertheless recommended that tools which do not create excessive dust are used when working with the product. Dust created when working with Nutec products is classified as nuisance dust and not hazardous.

To minimise the effect of dust:

- Work in a well ventilated space, preferably outdoors when sawing, drilling, filing or sanding fibre-cement products.
- Where indoor work is essential it is recommended to use power tools fitted with dust extraction equipment.

## HANDLING AND STORAGE INSTRUCTIONS

### GENERAL HANDLING:

Nutec roofing sheets are manufactured from a composite material containing cement and may be damaged under excessively high shock loads. Reasonable care should therefore be taken to ensure that the products are not dropped or subjected to rough handling.

- Roofing sheets are separated by spacers and these must remain in place during transportation and storage.
- Roofing sheets should remain on pallets and can be kept outside for short periods – ideally they should be kept under cover until installed.
- Strict stock rotation should be adhered to.

### DURABILITY

When supplied in their natural grey colour the sheets will be affected in the following ways by weathering:

- Surface weathering due to acid rain in coastal or polluted areas.
- During the first few months of exposure the sheets may darken on the underside due to water absorption during prolonged rain. This will diminish as the material seals itself due to further hydration of cement and carbonation.

### TRANSPORT, HANDLING AND STORAGE

#### A. TRANSPORT

##### 1. Own Collection

When the customer collects product from either the manufacturer or stockist, the customer must ensure for the following:

- a) A suitable vehicle.
- b) Long enough load bed to take the roof sheets.
- c) Adequate packing material to provide a level base if the bed is uneven.
- d) Adequate strapping to secure the load.
- e) Transport permit if required.

##### Responsibilities:

- The customer accepts responsibility for loaded material before leaving supplier.
- Check that the material is in a sound condition.
- Quantities and sizes are correct.
- Check that the load is secure and within the load limits of the vehicle.

##### 2. By Haulage Contractor, Stockist or Manufacturer

- Follow precautions as per item 1(a-e) above.
- Responsibilities:
- The material remains the responsibility of the carrier until it is delivered and off loaded / stacked on-site.
  - The agreed portage requirements of carrier and customer must be available.
  - Access to the stacking area is within the agreed distance.

#### B. HANDLING

Sheets up to 3.6 meters in length are handled manually by two persons - one at each end. Sheets should be lifted at the crowns away from the extreme edges of the sheet as shown in diagram below:

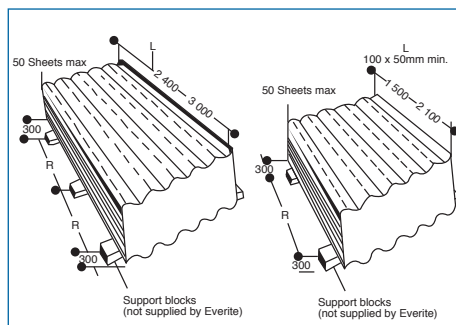


### HANDLING AND STORAGE INSTRUCTIONS (continued)

#### C. STORAGE

Customers responsibility

- Stacking area: should be firm and level and where sheets cannot be damaged or soiled by passing traffic.
- Provision of bearers: Sheets should be stacked on timber bearers as shown in diagram below. 75mm x 50mm rough sawn timber are usually adequate for this purpose.



- Preplanning: Adequate preplanning of deliveries should be made to ensure that Nutec products are not stored on site for periods in excess of one month prior to their intended use. In dry arid areas, Nutec products should be covered and protected against drying winds or hot sun to avoid peripheral shrinkage and resultant cracking in stacks.

#### CUTTING AND DRILLING

Nutec sheeting may be cut and drilled as necessary. Holes must NOT be punched. Holes for fixing should be 2mm larger in diameter than the bolt or fixing screw used for securing the roof sheet. Holes must always be drilled through the crown of the corrugation as shown in photo below.



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