

## GUIDELINES FOR AN ARCHITECTURAL SPECIFICATION FOR PRE-PRIMED / SEALED COMPRESSED FIBER CEMENT CLADDING USING THE NAWKAW PROCESS

### 1. General

The specification should cover the materials, preparation and services needed for the application of a concrete colouring emulsion on above ground, vertical and exterior exposed surfaces of new and existing pre primed / pre-sealed compressed fibre-cement cladding elements. The information below is to assist in the preparation of a project specification.

#### 1.1. Documents referred to:

- Nawkaw MSDS
- Nawkaw 25 Year Guarantee
- Nawkaw Operations & Maintenance Manual

Documents listed above and cited in the clauses that follow are part of this specification. However, this specification takes precedence in the event of it being at variance with the cited document.

Copies of the above literature are available from:

**Web:** [www.nawkaw.com.au](http://www.nawkaw.com.au)

**Email:** [sales@nawkaw.com.au](mailto:sales@nawkaw.com.au)

**Telephone:** 1300 629 529 (1300 NAWKAW)

**Facsimile:** 02 8572 8248

#### 1.2. No Substitutions

Substitutions are not permitted to any specified manufacturer's system, or associated components and products

#### 1.3. Qualifications

Nawkaw Australia has more than 15 year's experience in Australia in the supervision and application of the products specified in this section. Only approved applicators trained in the application of the stains and with the proper well-maintained equipment are to be used to ensure the 25 year guarantee.

### 2. Materials

Nawkaw Emulsion Colour Treatment (NEGT / NECT-90) is manufactured by Nawkaw Australia.

It is a hydrous, multiple polymer formulation of resin solids and colour pigments, which is light fast, UV resistant, penetrating, aspiratory, quick-drying and mould, fungus and mildew resistant. Once applied and cured the oxides are bonded to the surface pore structure of the cement board, concrete or masonry. The surface remains slightly flexible and permeable (although at a reduced level ) and will allow the substrate to breathe allowing moisture vapour and salts to migrate through the coloured surface. It is environmentally friendly, water-based and non-flammable.

Nawkaw Emulsion Colour Treatment (NEGT / NECT-90) is Low VOC with a VOC of 34g/litre. This is well under the threshold of 50g/litre in the Green Star Building Council Green Star Rating System, enabling one Green Star Credit Point for use of this product.

It is non-hazardous and non-dangerous according to criteria of NOHSC & the ADG code (ref Chemwatch MSDS 4628-67)

Nawkaw Emulsion Colour Treatment (NEGT / NECT-90) is also resistant to flame propagation and ignitability and has been independently tested to AS-NZS 1530.3 - Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release.

### **3. Surface Preparation**

Cement board surfaces must be clean and dry with any surface repairs completed to industry standards using repair mediums that are approved industry materials to the lines and textures of the surrounding surface and primed.

Patching of panels should be done a minimum of 24 hours ahead of the Nawkaw application. Patch repairs should be finished flush with the surface with the same texture and should be primed with the industry standard / manufacturers water based sealer primer ( such as Zinsser 1-2-3 or Taubmans 3 in 1 primer sealer bond).

Where possible a patch should be the same shade or a slightly lighter shade in colour than the surrounding panel surface and no water proofing agents are to be used.

Aluminium joiner strips should be preprimed (such as Zinsser 1-2-3 or Taubmans 3 in 1 primer sealer bond.) a minimum 24 hrs prior to Nawkaw application and is the responsibility of the panel installer.

Treated surfaces should not be exposed to driving rain for at least 2 hours after the application of the Nawkaw Colouring Process.

### **4. Application**

Nawkaw Emulsion Colour Treatment (NEGT / NECT-90) colour blended to a reference standard will be produced as recommended by the manufacturer.

The NEGТ / NECT-90 is applied by the chosen technique that best suits the method of construction whilst meeting the designed colour finish specification.

Examples of techniques used to apply the NEGТ / NECT-90 are hand applications such as roller, pad, brush, as well as, machine applications such as misting, spraying and spattering. Note that a single application of NEGТ / NECT90 is as durable as several – extra applications are for aesthetics only.

### **5. Environmental Requirements**

Air and substrate temperature must be above 5 degrees centigrade or below 40 degrees centigrade. Application cannot proceed if the substrate is wet, contains frozen water, or if rain is likely within 1 hour.

### **6. Protection**

Protect all surrounds, metal, wood trim, glass, asphalt and other building hardware during application from over spray if applicable.

Do not permit mist (if spraying) or liquid to drift onto surrounding properties. Any surfaces inadvertently affected by colour should be cleaned with water or a cleaning compound which will not damage or discolour the surface.

### **7. Clean Up**

At completion of staining, all excess materials, debris and waste must be removed from the jobsite. Return all unused stain to the warehouse for recycling or disposal to landfill after solidifying.

### **8. Submittals**

#### **8.1. Product Data**

Submit manufacturers' technical literature, specifications and application instructions for Nawkaw Emulsion Colour Treatment (NEGT / NECT-90) as manufactured by NAWKAW Corporation.

#### **8.2. Environmental Regulations**

The colouring emulsion material to be applied is in compliance with environmental Volatile Organic Compounds (VOC) regulations and is classed as non-hazardous, non- dangerous according to criteria of NOHSC & the ADG code. (Refer Chemwatch MSDS 4628-67). Nawkaw Emulsion Colour Treatment (NEGT / NECT-90) is Low VOC with a VOC of 34g/litre.

### **8.3. Control Panel**

The submission of a control panel will become the reference standard of quality. Application of the colouring emulsion to the control panel is to be as per the manufacturer's instructions and to achieve the desired effects as directed by the architect. After the sample treatment has cured in accordance with manufacturer's recommendations, verify the substrate is coated with sufficient colouring emulsion to produce the desired appearance and colour (One coat application of Nawkaw stain is as durable as multi coating). Obtain the approval of the architect and/or project owner for the coverage, appearance and colour of the control panel prior to full scale application to any walling element.

## **9. Product Delivery and Storage**

Deliver all materials to the job site in original sealed containers that is clearly marked with the manufacturer's name, brand name and type of material and colour, or colour formula. Verify the product matches that of the original sample applied on the control panel.

Store and handle according to manufacturers written instructions provided. Store all materials inside if possible, away from sparks or open flame in a secure area to avoid tampering and contamination. Water-based materials must be kept from freezing.

## **10. Maintenance**

### **10.1. Balconies and Balustrades and trafficked areas**

Balconies are normally exterior surfaces so generally are exposed to weathering. Balconies are also living areas, so may be exposed to more severe impact and abrasion than interior walls due to their use as relaxation and entertaining areas combined with movement of outdoor furniture, barbeques, and pot plants.

The surfaces exposed to human traffic are likely to suffer impact and abrasion. Such impact and abrasion marks may not wash off, and repair by reapplication may be necessary. NAWKAW products can be top coated with impact and abrasion resistant clear coatings, to retain more superior resistance to weathering and improved resistance to impact and abrasion.

### **10.2.**

The Nawkaw colour treated products require virtually no maintenance as it will inherently repel dirt and grime. An occasional hosing down with a mild surfactant will remove any dust accumulated over time. Harsh treatments that are aggressive or abrasive are to be avoided.

Periodic cleaning will involve the use of a suitable biodegradable detergent and cold water. In cases where the soiling is not stubborn, a wash down with water alone may suffice.

Pressure washers above 1000 PSI should never be used on the wall. It is recommended the tip of the spray nozzle is kept at least 400mm from the wall at all times during cleaning. Pressure washers above 1000 PSI should never be used on the wall. It is recommended the tip of the spray nozzle is kept at least 400mm from the wall at all times during cleaning with a fan angle of minimum 15degrees be maintained during cleaning. Do not use turbo head attachments when pressure cleaning.

Cleaning using high pressure hot water or steam cleaning is not recommended.

Strong acids such as HCL, abrasive cleaning methods and the application of adhesives and adhesives tapes should all be avoided.

For cleaning of stains other than atmospheric grime please contact 1300 NAWKAW for advice or email us on [sales@nawkaw.com.au](mailto:sales@nawkaw.com.au) with your enquiry.

Please refer to Nawkaw Operations & Maintenance Manual for more information.

## **11. Guarantee**

Nawkaw shall guarantee its' colour emulsion material against failure in material and workmanship for a minimum period of twenty-five years from the date of application.