



TECHNICAL DATA SHEET

Title: GRC CLADDING – REPAIR AND MAINTENANCE
Ref: TDS04
Issue Date: January 2013
Version: 01

All cladding products manufactured by GRCUK are designed to have a service life in excess of 60 years when correctly installed with minimum repair and maintenance requirements.

Based on the imposed live loads provided by the customer the panels and components will have been designed to operate within their elastic limit (LOP) generally with a safety factor of 2-3. As this is a function of the concrete matrix there is no loss of this strength over time. In addition the fixing methodology shown on our construction drawings will allow all free movement of the GRC skin due to shrinkage, thermal expansion and contraction.

With no embedded steel (other than cast in fixings which are all stainless steel) there is no potential for corrosion within the elements.

Products are freeze/thaw resistant.

Cleaning

The composition of the material provides good retention of supplied appearance. All our cladding formulation contains a polymer modification which locks water into the matrix to ensure maximum cement hydration. This also effectively seals against moisture ingress. A further sealant is applied post production to provide a secondary barrier against such ingress.

In the event components require cleaning this can be carried out using a high pressure jet wash to remove marks etc.

Re-application of Surface Sealant

We would recommend a surface sealant is applied very 10 years to maintain a crisp clean appearance. Please contact us for details of approved products which vary due to geographical location of completed project.

Anti-Graffiti Coatings

Where an anti-graffiti coating has been applied the properties and maintenance information will have been provided as part of the contract completion process. All such coatings have a limited life span and will require re-application if required. Advice should be sought from the AG supplier.

Repairs

The material has an ultimate flexural yield strength (MOR) considerably higher than the elastic limit. As such components can generally withstand significant localised impacts without failing. In the event of a visible crack to the architectural surface the unit should be replaced.



Any localised impact damage to edges and corners is generally restricted to small areas due to the presence of the reinforcing fibres spread throughout the matrix. As such repairs are relatively simple. Please contact our office for further information.

Replacement

In the unlikely event of a panel requiring replacement reference must be made to the original construction details provided for every contract. Under our ISO 9001 procedures such documents are retained for 10 years. Within that period copies can be provided on request.

Colour Retention

All our Portland (P Prefix) and White (W Prefix) colours are manufactured only from naturally occurring aggregates and contain no colouring pigments

Iron oxide pigments are used in all other mix designs and as such are inert with no colour loss. All pigments are compliant to BS EN 12878 and are tested for resistance to weathering in accordance with section 5.10.