

Description

Archco-Rigidon System 603D is a heavy-duty lining formulated from a Vinyl Ester based resin reinforced with chopped strand glass fibre mat. The lining is applied to suitably prepared steel or concrete substrates to a nominal thickness of 3mm comprising of:

- * A Vinyl Ester Primer
- * A silica filled 603D resin base coat approx. 1.5mm thick
- * Two layers or 450gm/m² chopped strand glass fibre impregnated with 603D resin
- * A layer of surfacing tissue and 603D resin
- * A final sealer coat of 603D Waxed Resin Topcoat

Principal Characteristics

- * Excellent corrosion resistance
- * Excellent physical properties
- * Good abrasion resistance
- * Good erosion resistance
- * Excellent chemical resistance
- * Low permeability
- * Good application properties
- * Good repairability
- * Monolithic structure

Corrosion and Temperature Resistance

Archco-Rigidon system 603D is resistant to corrosive mineral acids, alkalis, salts at temperatures up to 75°C under immersed conditions and 140°C under fume conditions, dependent upon the chemical type and concentration levels. **System 603D** has particularly good resistance to oxidising chemicals.

Higher temperatures can be tolerated in certain circumstances based on successful case histories.

Suggested Uses

Archco-Rigidon System 603D is used primarily to protect steel and concrete from corrosive attack. The integral structural strength that this monolithic system offers makes it ideal for the protection of sound concrete substrates. **System 603D** is widely used in the chemical process and oil related industries.

It is particularly suitable for lining process and storage vessels, concrete bunds, sumps and holding tanks, handling the most corrosive of chemical conditions.

How to Order

A full material system may be ordered by simply specifying **Archco-Rigidon System 603D**.

Contact **Archco-Rigidon** Engineers for further information.

System 603D	Vinyl Ester
Operating Temperature Range	-20°C to +75°C
Application Method	Trowel and hand laminating
Surface Preparation	Steel: Gritblast Sa2½. Concrete: Remove surface laitance.
Colour	Brown or to Specification
Catalyst Type	Archco-Rigidon C3
Volume Solids	N/A
Dry Film Thickness	3.0mm ± 10%
Min Substrate Temperature	+10°C
Max Humidity during Application	90% Rh
Min Dewpoint/Substrate Differential (steel)	Dewpoint +3°C
Flash Point	31°C
Tool Cleaning Solvent	Archco-Rigidon T2
Storage Temperature Limits	10°C-20°C
Shelf Life	6 months

Estimated Coverages are as follows:	Practical Material Requirements
Component	Quantity/m ²
PD2 Primer	0.25kg
603D Resin	4.50kg
FSI Filler	3.00kg
450g CSM	2.20m ²
Surface Tissue	1.10m ²
*C3 Catalyst	0.05kg
T2 Cleaner	0.50 litre
Wax Top Coat	0.35kg

System 603D Typical Test Data			
Characteristic	Standard	Result	
Tensile Strength	ASTM D 638	6500 psi	457kg/cm ²
Flexural Strength	ASTM D 790	8000 psi	563kg/cm ²

*Recommended Catalyst ratio is normally between 1 ~ 1.5% by volume of the resin mix. Ambient conditions may have a bearing on actual levels of catalyst required. Consult Archco Rigidon Engineers for specific guidelines.