

Description

Archco-Rigidon 623D 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.

- . A Vinyl Ester Primer
- . A silica filled **623D** resin base coat approx. 1.5mm thick
- . Two layers of 450 gm/m² chopped strand glass fibre impregnated with **623D** resin
- . A layer of surfacing tissue and **623D** resin
- . A final sealer coat of **623D** waxed resin top coat.

Principal Characteristics

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

Corrosion and Temperature Resistance

Archco-Rigidon 623D is resistant to corrosive mineral acids, alkalis and salts at temperatures up to 75°C under immersed conditions and 140°C under fume conditions, dependent upon chemical type and concentration levels. **System 623D** has particularly good resistance to oxidising chemicals.

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

Suggested Uses

Archco- Rigidon 623D is used primarily to protect steel and concrete from corrosive attack. The integral structural strength that this monolithic system offers make it ideal for the protection of sound concrete substrates. **Archco-Rigidon 623 D** is widely used in the chemical process and oil related industries.

It is particularly suitable for lining process and storage vessels, concrete bunds, sump, 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 623D**.

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

Archco-Rigidon 623D	Vinyl Ester
Operating Temperature Range	Min. -20°C Max. +75°C
Application Method	Trowel and Hand Laminating
Surface Preparation	Steel: Gritblast, Sa2½ Concrete Remove Surface Laitance
Colour	Clear or to specification
Catalyst Type	Archco-Rigidon C3
Volume Solids	N/A
Dry Film Thickness	3.0 mm± 10%
Min Substrate Temperature	+10°C
Max Humidity During Application	90% Rh
Min Dewpoint/Substrate Differential	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 requirement
Component	Quantity/m ²
PD2 Primer	0.15kg
623 D Resin	4.50kg
FS1 Filler	3.00kg
450g CSM	2.20m ²
Surface Tissue	1.10m ²
*C3 Catalyst	0.05kg
T2 Cleaner	0.50ltr
Wax Top Coat	0.35kg

*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.

Archco- Rigidon 623 D Typical Test Data			
Characteristic	Standard	Result	
Tensile Strength	ASTM D 638	6,500 psi	457kg/cm ²
Flexural Strength	ASTM D 790	8,000 psi	563kg/ cm ²