

Description

Archco-Rigidon System 703D is a 3 component heavy-duty trowel applied lining formulated from a Vinyl Ester based resin reinforced with woven glass cloth 'G'.

The lining is intended primarily for the protection of concrete tanks, floors, bunds etc. It is applied to suitably prepared concrete substrates to a nominal thickness of 3 to 4mm comprising:

- Vinyl Ester Primer
- a silica filled **703D** resin base coat
- a single layer of woven glass cloth 'G' impregnated with **703D** resin
- a silica filled 703D resin top coat

Principal Characteristics

- * Excellent corrosion resistance
- * Excellent abrasion resistance
- * Excellent erosion resistance
- * easy to repair
- * will bridge live cracks
- * good application properties

Corrosion and Temperature Resistance

Archco-Rigidon system 703D is resistant to corrosive mineral acids, alkalis and certain solvents at temperatures up to 75°C depending upon chemical type and concentration levels.

Suggested Uses

Archco-Rigidon 703D is intended primarily for the protection of concrete although it can be applied to steel in certain circumstances.

Archco-Rigidon 703D is widely used to protect concrete holding and treatment tanks for lining bunds, sumps and channels and for protecting floors which are subject to chemical spillage.

How to Order

A full material system may be ordered by simply specifying **Archco-Rigidon system 703D**.

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

Archco-Rigidon 703D	Vinyl Ester
Operating Temperature Range	Min -20°C Max +75°C
Application Method	Trowel and hand lay up
Surface Preparation	Gritblast, scabble or acid etch in order to remove surface laitance.
Colour	Grey
Catalyst Type	Archco-Rigidon C3
Volume Solids	N/A
Dry Film Thickness	3 to 4mm
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	T2 Cleaner
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	0.25kg
703D Resin	3.00kg
FS1 Filler	3.00kg
Woven Glass Cloth 'G'	1.10m ²
*C3 Catalyst	0.04kg
T2 Cleaner	0.50 litres
P21 Rolling Aid	0.25 litres

*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.

System 703D Typical Test Data			
Characteristic	Standard	Result	
Tensile Strength	ASTM C-307-55	2,200 psi	155kg/cm ²
Compressive Strength	ASTM C-306-55	12,900 psi	910kg/cm ²