

Archco-Rigidon 423D is normally applied to suitably prepared and primed steel substrates (see Doc. Ref. 32A/PD2).

The flake filled material should be applied by brush or airless spray in two or more coats, each coat being 375 to 500 mic thick. The first or intermediate coat should be slightly pigmented to provide a colour contrast, and regular checks should be carried out with a wet film gauge to ensure uniform application of each coat.

Plate edges, corners and weld margins should be stripe coated by brush or roller prior to application of the first coat and again before application of the finish coat. This will help to ensure adequate coverage of these areas.

The uncatalysed material must be mixed thoroughly using a mechanical whip. The material should then be catalysed according to quantity and ambient conditions (see Doc. Ref. 32A/C3). As a general rule use 1 to 2% catalyst when applying at temperatures between 10°C and 20°C. Ensure the two components are fully mixed using a mechanical whip prior to application. Use **Archco-Rigidon** materials directly after mixing.

NOTE Use of less than 1% catalyst will not produce a full cure of the coating material. Inadequate mixing will lead to areas of unsatisfactory cure.

When applying by airless spray refer to the equipment manufacturer's operating procedures. In addition remove pump filter, surge pot and in line filters.

Pay particular attention to the stated pot life of the material (see material package labelling). Clean down tools and equipment with **Archco-Rigidon T2 Cleaner** within this specified time. Great care must be taken to avoid contaminating the coating material with **T2 Cleaner** as this can have adverse effects on the cure of the material.

Inspection and Testing

The Dry film thickness of the completed coating should be measured with an electronic instrument suitably calibrated. The lining should be examined for consistency of finish, lack of sags, runs, misses etc, particularly at inaccessible areas of the work.

The finished cured lining should be tested for holidays using a D.C. spark detector. A coating test voltage of 4000V/mm should be used.

The degree of cure of the lining may be determined by a Barber Colman Hardness Impressor. A barcol hardness figure of 30 to 40 is acceptable.

System 423D	
Application Method	Airless Spray or Brush
Catalyst Type	Archco-Rigidon C3
Volume Solids	98%-99%
Specific Gravity	1.2
Dry Film Thickness per Coat	375-500mic 17-20 mils
Theoretical Spreading Rate	1.2kg/m ² /1mm DFT
Practical Spreading Rate	2.0kg/m ² /1mm DFT
Overcoating Times	Min. 6 hrs – Max. 7 days
Tool Cleaning Solvent	Archco-Rigidon T2
Max Humidity during Application	90% Rh
Min Substrate Temperature	10°C
Min Dewpoint/Substrate Differential	Dewpoint +3°C
Preferred Equipment	Graco King 63:1 Airless Spray Unit
Airless Spray Tip Size	0.025"-0.031" 625-775 microns
Pressure at Tip	2500-3500psi 175-245 kg/cm ²
Pot Life	40 mins - 60 mins
Typical Curing Characteristics	Substrate Temperature 15°C
	Touch Dry Approx 3.5hrs Full Cure 2-7 days
Dilution	Not Applicable
Shelf Life	6 months
Storage Temperature Limits	10°C - 20°C
Flash Point	31°C
Ventilation	Do not use in confined spaces without adequate ventilation or breathing equipment.
Lighting – Heating in an Enclosed Environment	Use only BASEFA Zone 1 Eex d IIA T1 or better

	Table 1 Steel Substrate				
	Swedish Standard	BS4232	NACE	USA Specification	Japanese Standard
Minimum Cleanliness Standards	Sa2½	2 nd Quality	=2	SSPC-SP10	JASh 2 JASd 2
Near White Metal					
Anchor Profile 423D System	50-75 micron		2-3 mils		
Primer D.F.T.	25-50 micron		1-2 mils		
Primer Type	Archco-Rigidon PD2				