

Archco-Rigidon Rigspray is designed to be a primerless coating which is applied directly to suitably prepared steel substrates (see Table 1). Should a primer be required use **Archco-Rigidon PD2** and refer to Doc. Ref. 32A/PD2.

The flake filled material should be applied by airless spray in one coat to the required thickness, small areas and repairs can be coated by brush if required. Regular checks should be carried out with a wet film gauge to ensure uniform application of the coating.

Plate edges, corners and weld margins should be stripe coated by brush prior to application of the coating. 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/C2). As a general rule, for temperatures between 10°C and 20°C, add 0.5 litres Catalyst to a 20 litre drum. 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.

Rigspray	
Application Method	Airless Spray or Brush
Catalyst Type	Archco-Rigidon C2
Volume Solids	98%-99%
Specific Gravity	1.3
Dry Film Thickness per Coat	600-1000mic 24-40 mils
Theoretical Spreading Rate	0.8 litre/m ² /0.8mm D.F.T
Practical Spreading Rate	1.2 litre/m ² /0.8mm D.F.T
Overcoating Times (20°C)	Min. 4 hrs - Max. 3 days
Tool Cleaning Solvent	Archco-Rigidon T2
Max Humidity during Application	90% Rh
Min Substrate Temperature	5°C
Min Dewpoint/Substrate Differential	Dewpoint +3°C
Preferred Equipment	Graco King 68:1 or 56:1 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 (20°C)	15-20 mins
Typical Curing Characteristics	Substrate Temperature 15°C
	Touch Dry Approx 2.5 hrs 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					
Minimum Cleanliness Standards	Swedish Standard	BS4232	NACE	USA Specification	Japanese Standard
Near White Metal	Sa2½	2 nd Quality	=2	SSPC-SP10	JASh 2 JASd 2
Anchor Profile	50-75 micron		2-3 mils		
Primer D.F.T.	25-50 micron		1-2 mils		
Primer Type	Not normally required		Archco-Rigidon PD2		