

Elcometer 108 Hydraulic Adhesion Testers



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The Elcometer 108 Hydraulic Adhesion Tester is an extremely versatile gauge which can be used for many adhesion requirements. Tests can be made on flat or curved (concave and convex) surfaces.

The Elcometer 108 is the ideal gauge for coatings on Tanks, Pipelines, etc.

- Hand-Powered and portable
- Ideal for site work
- Reusable stainless steel dollies

Can be used in accordance with
ASTM D 4541
ISO 16276-1
NF T30-606

Elcometer Digital Adhesion Gauge features:

- Maximum hold - displays the highest value reached
- Backlit display for dark areas
- Rubber protective casing
- Switchable Metric/Imperial units

Adhesion

From the largest man-made structures to the smallest household appliances, most manufactured products have a protective or cosmetic coating. Premature failure of this coating can, at the very least, result in costly penalties or rework.

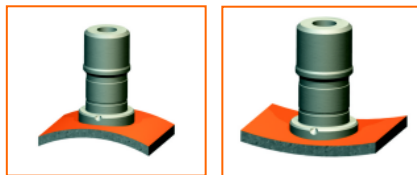
Adhesion testing during the coating process will quantify the strength of the bond between substrate and coating, or between different coating layers or the cohesive strength of some substrates. Routine testing is also used as part of inspection and maintenance procedures to help detect potential coating failures.

Elcometer offer a highly comprehensive range of Adhesion Gauges designed specifically to meet your requirements. These gauges can be split into three categories:

Cross Hatch / Cross Cut Method
 The coating is cut into small squares, thereby reducing lateral bonding, and the adhesion assessed against ISO, ASTM or Corporate Standards

Pull Off Adhesion Method Tensile Dollies (or stubs) are glued to the coating and, once the adhesive has cured, the force required to pull the dolly off the surface is measured.

Push Off Adhesion Method Similar to the Pull Off Adhesion Test, a dolly is glued to the coating, once the adhesive has cured, however, the dolly is pushed off the surface by the adhesion gauge.



Convex

Concave

The Elcometer 108 can be used with convex and concave dollies, making this the gauge for adhesion of coatings on all pipelines including those with small diameter, tanks and other curved surfaces. There is a wide range of curved dollies available, each designed for a specific range of curvature.

TECHNICAL SPECIFICATION				
Analogue Instrument Range	Operating: 0 - 18MPa (0 - 2600psi)			
Analogue Instrument Accuracy	±1MPa Metric Scale; 150psi (Imperial Scale)			
Digital Instrument Range	Operating: 0 - 18MPa (0 - 2600psi)			
Digital Instrument Accuracy	±3% or 60psi (whichever is the greater)			
Dolly Size	Outside Diameter:	19.4mm (0.76")		
	Inside Diameter:	3.7mm (0.15")		
	Area:	284mm ² (0.44sq.inch)		
Part Number	UK 240V	EUR 220V	US 110V	Description
	F108---1D		F108---1C	Elcometer 108/1 Hydraulic Adhesion Tester - Analogue Dial Gauge
	F108---2D		F108---2C	Elcometer 108/2 Hydraulic Adhesion Tester - Digital Gauge
Packing List	Elcometer 108, ABS carry case, 5 flat dollies, 5 nylon plugs, MC1500 quick curing adhesive, dolly cleaning tool, heating tongs			

ACCESSORIES	
Part Number	Description
T99911135	Rite-Lok MC1500 Adhesive
T1089646-	Standard Flat Dolly 19.4mm (0.76")

Concave and convex dollies designed to meet specific curvatures are available upon request

Related Products



Elcometer 106

Elcometer 106 Pull Off Adhesion Tester

The Elcometer 106 Adhesion Tester is easy to operate and fully portable, and provides a numerical value for adhesion. Applications include paint or plasma spray on bridge decking, coatings on steel, aluminium, concrete etc.



Elcometer 1940/1941

Elcometer 1940/1941 PAT™ Adhesion Testers

This portable range of hydraulic adhesion testers provides users with the ability to measure the bond strength of coatings on a wider range of substrates. With the unique testing head design, each gauge ensures a perpendicular (90°) pull irrespective of the surface contours or orientation.



Elcometer 1910

Elcometer 1910 PATHandy™ Adhesion Tester

This easy to use, lightweight hydraulic adhesion tester applies an increasing level of pull off force to a dolly adhered to the surface under test simply by turning the handle.