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**Commercial Information**

**SURFACE PREPARATION INNOVATION**

**Version Date:** March 2011

**Title:** Elcometer Adhesion Kits

**ELCOMETER 106 ADHESION TESTER**

The Elcometer 106 is a fully portable adhesion tester which uses the measurement principle of bonding a dolly to the coating using an adhesive and then applying a lift force to the dolly using the spring arrangement housed within the Elcometer 106.

When the dolly is pulled off the surface, an indicator on the scale shows the numerical value of adhesion expressed in terms of the force required to remove the dolly.

The Elcometer 106 is available in 5 versions to test from low adhesion values of 0.05MPa up to 5 - 22MPa.

*Note: Can be used in accordance with ASTM D451, ISO 4624 and BS EN 24624 test methods*



**Technical information**

Model	Scale	Mega Pascals	Newton mm sq	Kg per sq cm	lbs per sq inch
F106----1	Scale 1	0 - 3.5 MPa	0 - 3.5 N.mm.sq	0 - 35.7 kg/cm sq	0 - 500 psi
F106----2	Scale 2	0 - 7 MPa	0 - 7 N.mm.sq	0 - 71.4 kg/cm sq	0 - 1000 psi
F106----3	Scale 3	0 - 15 MPa	0 - 15 N.mm.sq	0 - 153 kg/cm sq	0 - 2000psi
F106----4	Scale 4	0 - 22 MPa	0 - 22 N.mm.sq	0 - 224.4kg/cm sq	0 - 3200 psi
F106----5	Scale 5	0 - 0.2 MPa	0 - 0.2 N.mm.sq	0 - 2.04 kg/cm sq	0 - 30 psi

**ELCOMETER 107 CROSS HATCH CUTTER KITS**

The coating may be continuous and look good, but how well is it connected to the substrate?

The Elcometer 107 Cross Hatch Cutter provides an instant assessment of the quality of the bond to the substrate. Due to its rugged construction the gauge is ideal for thin, thick or tough coatings on flat or curved surfaces.

With easy-to-change cutters and a large non-slip grip, also available in ASTM or ISO versions, this kit excels in both field and laboratory tests.



**SURFACE PREPARATION INNOVATION**

Portable/Stationary Abrasive Blast Equipment - Nozzles - Nozzle Holders - Hoses - Couplings - Lighting  
 Wetblast Equipment - High Pressure Waterjetting - Personal Protection - Blast Cabinets - Dehumidifiers  
 Blastrooms Vacuum Blast/Recovery Equipment - Portable/Stationary Wheelblast Equipment  
 Pipe Cleaning/Coating - Air Treatment - Mobile Dust Collectors - Media - Paintspray Equipment  
 Plural Component - Measuring Instruments

## Technical information

Coating Thickness	Substrate Type	Teeth	Spacing	Test Method
0 - 50 µm	Metal	11	1mm	ASTM D3359B
0 - 60 µm	Hard	6	1mm	BS EN ISO2409
0 - 60 µm	Medium	11	1.5mm	-
0 - 60 µm	Soft	6	2mm	BS EN ISO2409
50 - 125 µm	Hard and Soft	6	2mm	ASTM D3559B
61 - 120 µm	Hard and Soft	6	2mm	BS EN ISO2409
125 - 250 µm	Hard and Soft	6	3mm	Quick Check Only

**Note:** Can be used in accordance with ISO 8780-5, ISO 787/16, ASTM D387, ASTM D332, NFT 30023

## ELCOMETER 108 HYDRAULIC ADHESION TESTER

The Elcometer 108 is an extremely versatile hydraulic adhesion tester, and ideal for measuring coatings on tanks, pipelines etc. It is hand-powered and easily portable and comes standard with a complete kit and carry case.

Tests can be made on flat or curved (concave and convex) surfaces. A reusable, stainless steel dolly is adhered to the coating's surface and the force required to push the dolly from the surface is applied using the handle. The value of the force applied is displayed either as a digital display or via an analogue dial. For areas susceptible to explosion (e.g. inflammable areas), the analogue version should be chosen.



## Technical information

Specification	
Dial Adhesion Gauge Range :	0 – 18MPa (Operating) or 0 – 25MPa (Full scale)
Dial Pressure Gauge Accuracy :	±0.5MPa
Digital Adhesion Gauge Range :	0 – 18MPa (Operating) or 0 – 25MPa (Full scale)
Digital Pressure Gauge Accuracy :	±1%
Instrument Accuracy :	±5% of reading or 0.5MPa

**Note:** Can be used in accordance with ISO 16276-1, ASTM D451 and NF T30-606 test methods

## SURFACE PREPARATION INNOVATION

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