

Elcometer 134S Salt Detection Kit for Blast Cleaned Surfaces



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Chloride Salts left on the surface before the first coat is applied can result in the coating system being forced off the surface by corrosion or blistering before the full life of the coating has been reached.

To ensure that the chloride has been removed it is essential that the surface is tested before the coating is applied.

Surface Cleanliness

Surface contamination from salts such as chlorides, sulphates and nitrates have been shown to lead to blistering of organic coatings, particularly in immersion conditions.

It is not sufficient to measure the cleanliness of the substrate. In a multi-layer coating process, it is necessary to monitor and record the cleanliness of each layer prior to applying the next coating. When using amine cured epoxy coatings, for example, in low ambient temperatures or in high humidity, a surface oiliness or exudate may cause inter-coating adhesion failure.

At a glance

- Simple low cost test for field testing of Chloride Ion on surfaces.
- No needles or conductivity meter required.

Measuring Range	1 – 60ppm ($\mu\text{g}/\text{cm}^2$)
Scale Resolution	1ppm
Sampling Time	1.5 minutes
Tests per Box	5
Colour Change	Pink to White
Storage Conditions	25°C (77°F)
Kit Weight	250g (9oz)
Kit Dimensions	185 x 125 x 110mm (7 x 5 x 4.5")
Part Numbers	E134----1

The Elcometer 134 units do not require the use of needles or contain mercury.

Test Method - how to use a salt detection kit

The Elcometer 134 is simple and convenient to use with its three-step process

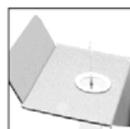
1. Pour CHLOR*EXTRACT™ solution into the latex tube.
2. Peel the protective backing off the flange of the tube, pinch to tube to retain the CHLOR*EXTRACT™ and stick the flange to the surface to be tested. Work the solution against the surface to extract the salts.
3. Peel the flange off. Insert the glass titration tube into the solution in the tube, and read the result.



1.



2.



3.

Related products



Elcometer 138

Well known in the protective coatings field, the Bresle Patch is one of the most popular tests for soluble salts. A patch is adhered to the substrate and the soluble salts are dissolved into distilled water using a rinsing motion caused by a syringe. A conductivity meter is then used to calculate the salt level.



Elcometer 139

The first site test for determining the presence of Amines on the surface of a coating. If present it can lead to inter-coat adhesion failure. This simple test takes seconds to undertake and gives instant results.



Elcometer 134A

Chlorides deposited on a surface by contaminated abrasive during blasting can cause a coating to fail prematurely. Contamination can build up, particularly if the blast media is recycled several times. The Elcometer 134A is an easy to use, accurate field test which determines if your abrasive is contaminated with chlorides and thus prevent costly surface-related failures.



Elcometer 134W

Coatings can fail due to chlorides being deposited on a surface by contaminated water during pressure washing, UHP water jetting or wet abrasive blasting. The Elcometer 134W is an easy to use, accurate, field based test which determines if your wash water is contaminated with chlorides and thus prevent costly surface coating failures.



Elcometer 134CSN

Designed to accurately measure surface chloride, sulphate and nitrate ions in minutes, the Elcometer 134 'CSN Salts' offers the user the ability of trouble-free testing in the field. Supplied in an ABS plastic carrying case for easy portability around the site, each field kit is supplied with full instructions attached to the inside lid.



Elcometer 130

This very easy to use salt contamination meter measures the level of salts on the surface. Soluble salts on a surface are absorbed into a special filter paper soaked with distilled water. The Elcometer 130 measures the conductivity of the wet paper, calculates the salt level and displays it in $\mu\text{g}/\text{cm}^2$.

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