

The “Cross Hatch” test has been used widely in various forms in order to assess the adhesion of paint coatings.

The Cross Hatch Cutter is used for assessing the resistance of paint coatings to separation from substrates when a right angled lattice pattern is cut into the coating, penetrating through to the substrate. It can also be viewed for adhesion between coating layers.

The test method specifies suitable cutting tools with either single or multiple cutting edges.

Features

- 8 cutting edges for long tool life
- Comfortable hard wood handle
- 5 tool sizes available



Description

The cutting tool consists of a hardened steel cylinder ground to a high standard of precision so that six or eleven cutting edges are formed between outer guide edges. A lightweight, comfortable handle is fitted to provide a firm hold. Four segments of the circumference are in part removed, a hold pin is fitted so that the tool can be assembled in eight ways with the use of a retaining thumb screw. The design enables the operator to use a substantial part of the total cutting edges.

Method of use

Reference should be made to the relevant National Standard for the detailed test method. The tool should be held with forefinger along the handle, fingertip over and above the cutting edge. The cutter is then carefully and firmly drawn under pressure over the section of coating to be tested to form, by two cross cuts, a square or diamond shaped lattice. The sample area is either given a stiff brushing or (alternatively) adhesive tape is applied. After this, the pattern inscribed is examined in order to define the classification of test results.

Physical Testing: Adhesion: **Cross Hatch Cutter (SH750)**

Standards

ASTM D3002 ASTM D3359-B AS 1580.408.4
AS 3894.9 BS EN ISO 2409 ECCA T6
ISO 2409 ISO 16276-2 JIS 5600-5.6
NF T30-038

Standard supply includes:

Cross Hatch Cutter, Handle, Case, Instructions

SH750/CK Kit for SH750 includes: Pressure sensitive adhesive, Tape (25 mm wide), Brush, Magnifier Glass, X 2 magnification, Instructions, Hard plastic carry case

Cross Hatch Cutter Range

| Product Ref | Blade Spacing | Blades | Coating Thickness | ISO | ASTM | Notes |
|-------------|---------------|--------|-------------------|-----|-------------|------------------------------------|
| SH750/1 | 1 mm | 6 | 0-60 µm | Yes | Up to 50 µm | For Hard Substrates |
| SH750/2 | 1 mm | 11 | 0-60 µm | Yes | Up to 50 µm | Makes 100 squares for % evaluation |
| SH750/3 | 1.5 mm | 6 | 0-60 µm | | | For Hard & soft substrates |
| SH750/4 | 2 mm | 6 | 61-120 µm | | 50-125 µm | For soft / hard substrates |
| SH750/5 | 3 mm | 6 | 121-250 µm | Yes | | For Hard & Soft substrates |

Ordering information

| Product Ref | Description |
|-------------|--|
| SH750/1 | Cross Hatch Cutter - 1 mm x 6 teeth |
| SH750/2 | Cross Hatch Cutter - 1 mm x 11 teeth |
| SH750/3 | Cross Hatch Cutter - 1.5 mm x 6 teeth |
| SH750/4 | Cross Hatch Cutter - 2 mm x 6 teeth |
| SH750/5 | Cross Hatch Cutter - 3 mm x 6 teeth |
| SH750/CK | Kit for Ref SH750 - Brush, Magnifier, Tape & Carry Case |
| SH750/SP | Cross hatch cutter (any model) supplied with accessory kit |
| | Consumables |
| SH750/501/P | Reel Pressure Sensitive Adhesive Tape (25mm wide) |
| SH751/1 | Replacement Cutter Head 1 mm x 6 teeth |
| SH751/2 | Replacement Cutter Head 1 mm x 11 teeth |
| SH751/3 | Replacement Cutter Head 1.5 mm x 6 teeth |
| SH751/4 | Replacement Cutter Head 2 mm x 6 teeth |
| SH751/5 | Replacement Cutter Head 3 mm x 6 teeth |

Owing to continuous development, we reserve the right to introduce improvements and modify specifications without prior notice.

**Our sales team can be contacted on:
info@sheeninstruments.com or +44 (0)208 783 4321**