

Cross Hatch Cutter

Cross Hatch Cutter is used to conduct the adhesion test of coatings after full curing of paint film. It provides an instant assessment of the quality of the bond between the coatings and the substrate.

Test is carried out by performing cross cuts at right angles. Clean the test area with a brush after that adhesive tape is pasted by pressing with your thumb and pulling it off. Then observe for any adhesion failure. If the film does not remove from the substrate then it means that the adhesion test is passed by the coating.

These cross hatch cutters are used in paint and coating, pipe, automobile, steel and cosmetic industries for adhesion tests.

Cross hatch cutters are available according to IS , ISO, ASTM standards. Thickness of the coating determines which type of cross hatch cutter is to be used for conducting the test.

Coating Thickness	Range	No. of teeth	Gap between each teeth (mm)
Upto 60 μm	1 mm	11	1
From 60 - 120 μm	2 mm	6	2
Above 120 - 250 μm	3 mm	6	3

Standard: ASTM D 3359, IS 101 (Part 5 /sec.2), ISO 2409

Raj Make



ASTM STANDARD

IS STANDARD



ISO STANDARD

Technical Specifications:

Ref No.	Range	No of teeth	Gap between each teeth	Description
114/1	1 mm	11	1 mm	IS Standard It has a simple blade with a wooden handle. Blade is made up of stainless steel.
114/2	2 mm	6	2 mm	
114/3	3 mm	6	3 mm	
114/4	1 mm	11	1 mm	ASTM Standard Specific angle is provided to the head where blades with mentioned teeths are fitted. Blade is made up of tungsten carbide tools and the handle is made up of brass with hard chrome plating and rubber cover.
114/5	2 mm	6	2 mm	
114/6	3 mm	6	3 mm	
114/7	1 mm	11	1 mm	ISO Standard Round blade cross hatch cutters have multi blades for cutting. Due to the availability of multi blades the shelf of the round blade cutter increases. It is provided with a knurling handle .
114/8	2 mm	6	2 mm	
114/9	3 mm	6	3 mm	
Ref No.	Description			ISO Certified
114/10				PERMACEL TAPE (9001)
114/11				SCOTCH TAPE(2409)
114/12	Permacel USA Tape			

Accessories required for cross hatch cutter:

- Brush for cleaning surface.
- Magnifying lens for observation.
- DFT meter for determining dry film thickness.

Package Includes:

Cross hatch cutter, brush, manual and calibration certificate.

Ordering Informations:

Ref No. 114/1 Cross Hatch Cutter 1 mm (IS Standard)
 Ref No. 114/2 Cross Hatch Cutter 2 mm (IS Standard)
 Ref No. 114/3 Cross Hatch Cutter 3 mm (IS Standard)

Ref No. 114/7 Cross Hatch Cutter 1 mm (ISO Standard)
 Ref No. 114/8 Cross Hatch Cutter 2 mm (ISO Standard)
 Ref No. 114/9 Cross Hatch Cutter 3 mm (ISO Standard)

Ref No. 114/4 Cross Hatch Cutter 1 mm (ASTM Standard)
 Ref No. 114/5 Cross Hatch Cutter 2 mm (ASTM Standard)
 Ref No. 114/6 Cross Hatch Cutter 3 mm (ASTM Standard)

Ref No. 114/10 Permacel Tape (9001) (ISO Certified)
 Ref No. 114/11 Scotch Tape (2409) (ISO Certified)
 Ref No. 114/12 Permacel USA Tape (ASTM D 3359)

Cross Hatch Cutter HSN code: 90278090

Tape HSN code: 39199010