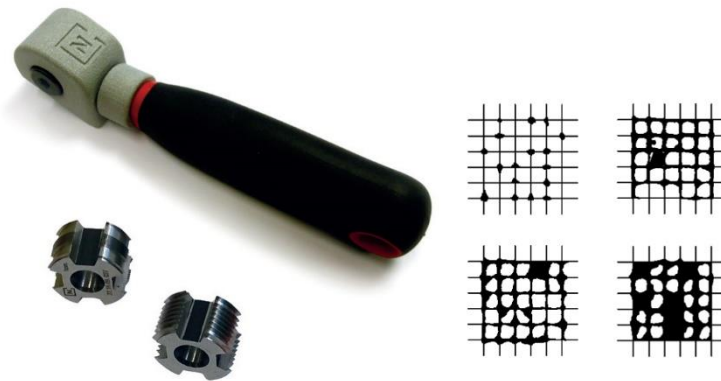


Cross Cut Test



Ref. 0302000



Read this manual carefully before using the equipment.

1 PRODUCT DESCRIPTION

Test for the study of the adherence of the coating to the substrate, consisting of forming grids of equal size up to the substrate of the painted surface. To do this, we make a cross cut, apply the standardized adhesion tape, and then peel it off. The degree of peeling of the apexes is observed with a magnifying glass.

The NEURTEK cross cut tester consists on:

- **Cross cutting case**, consisting of handle, brush, magnifier and a roll of standardized adhesive tape according to ISO 2409
- **6-edged blade**, has a special design with 8 cutting zones, so that it rotates when one of the zones is worn out.

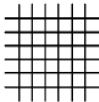
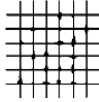


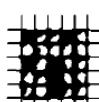
Blades available depending on the thickness of the substrate: Different sizes are available and are selected depending on the thickness of the coating to be tested:

- Ref. **0302001** up to 60 microns
 - Ref. **0302002** from 60 to 120 microns
 - Ref. **0302003** from 120 to 250 microns
 - Ref. **0302004** more than 250 micars
 - Ref. **0302005** special applications, 11 cut blade
- **Adherence tapes:** in addition to the one supplied with the case (ref. 0302011), we have other adherence tapes to comply with other standards. The most common is the one that complies with the ISO 2409 standard with an adhesion force of 7.5N/25mm.

2 HOW TO PERFORM THE TEST

- Ensure that the surface to be tested is rigid and firm
- Place the blade in the handle
- Make two cuts, perpendicular to each other (cross). To make the cut, the blade must be positioned at 90° to the surface
- Pass the brush to remove any residue that may remain and check that the cut has reached the substrate
- Remove the first two turns of the tape
- Apply the adhesive tape (approximately 75mm)
- Remove the adhesive tape, pulling it out constantly and maintaining a 180° position when pulling
- Analyze the results visually and set the level as indicated in ISO 2409.

Tabla 1 – Clasificación de los resultados del ensayo

| Categoría | Descripción | Aspecto de la superficie de la zona cuadrículada con presencia de descamación ^a (Ejemplo para seis incisiones paralelas) |
|-----------|---|--|
| 0 | Los bordes de las incisiones son perfectamente lisos: ningún cuadrado del enrejado se ha desprendido |  |
| 1 | Se observan ligeros desprendimientos del recubrimiento en las intersecciones de las incisiones. El área de enrejado afectada no es superior al 5% |  |
| 2 | Se observan desprendimientos del recubrimiento en los bordes y/o en las intersecciones de las incisiones. El área de enrejado afectada es mayor del 5% pero no mayor del 15% |  |
| 3 | El recubrimiento se ha desprendido parcial o totalmente en grandes bandas a lo largo de los bordes de las incisiones y/o se ha desprendido parcial o totalmente en distintas partes de los cuadrados. El área de enrejado afectada es mayor del 15% pero no mayor del 35% |  |
| 4 | El recubrimiento se ha desprendido en grandes bandas a lo largo de los bordes de las incisiones y/o algunos cuadrados se han desprendido parcial o totalmente. El área de enrejado afectada es mayor del 35% pero no mayor del 65% |  |
| 5 | Se observa un grado de desprendimiento superior al de la categoría 4 | — |

^a Las figuras son ejemplos para un enrejado dentro de cada categoría. Los porcentajes reflejados se basan en la impresión visual que muestran las imágenes y los mismos porcentajes no serán reproducibles necesariamente mediante imágenes digitales.

3 SCOPE OF SUPPLY

0302000 Cross Cutting Case with Brush, Magnifier, handle and adherence tape (1 unit related to ISO 2409)

4 BLADES AND TAPES

0302001 Knife 1 mm pitch, 6 cuts, thickness (0-60 μm)

0302002 Blade pitch 2 mm, 6 cuts, thickness (61-120 μm)

0302003 Blade pitch 3 mm, 6 cuts, thickness (121-250 μm)

0302004 Knife 4 mm pitch, 5 cuts (thickness >250 μm)

0302005 1mm pitch blade, 11 cuts - Special Applications - ASTM D3359

Adhesive tapes available:

0302011 Adhesion Test Tape UNE EN ISO 2409:2007 Adhesion strength 7,5N/25mm

0302013 Adhesive tape for grid cutting - (77N/100 mm)

0302014 Adhesive tape 75N/100mm

0302015 Adhesive tape 3.3N/cm