

**CROSS CUT ADHESION TEST CC1000**

VF1839, VF1840, VF1842, VF1844, VF1846, VF1847

DATASHEET

**PRODUCT DESCRIPTION**

The TQC Cross Cut Adhesion Test KIT (CC1000) is used to test the adhesion of dry coats of paint on their substrate by means of a series of cuts through the coating. Two series of parallel cuts cross angled to each other to obtain a pattern of 25 or 100 similar squares. The ruled area is evaluated by using a table chart after a short treatment with a stiff brush, or adhesive tape for hard substrates.

**BUSINESS**

Protective Coatings, Corrosion Control, Coating Laboratories, Paint Production

**STANDARDS**

ISO/DIN 2409, ASTM D3359

**FEATURES**

- Self-adjusting knife-holder ensures equal pressure on the cutting knife
- Round cutting knife with eight cutting edges for longer lifetime
- Ergonomically shaped handle
- Easy to change round cutting knife
- Wide range of knife sizes available for different coating thicknesses and substrates and according to different standards

**SCOPE OF SUPPLY**

Soft grip handle incl. CC1000 holder  
Hardened steel cutter (type may vary, see below)  
Nylon brush  
Illuminated magnifier  
Adhesive tape (adhesion to steel 4.3N/cm)  
4 mm Allen key

**ORDERING INFORMATION****Cross Cut Adhesion Tester acc. to DIN-ISO, 6 teeth**

VF1839 TQC Cross-cut adhesion test kit CC1000, incl. blade 1mm  
VF1842 TQC Cross-cut adhesion test kit CC1000, incl. blade 2mm  
VF1844 TQC Cross-cut adhesion test kit CC1000, incl. blade 3mm

**Cross Cut Adhesion Tester acc. To ASTM, 11 teeth**

VF1846 TQC Cross-cut adhesion test kit CC1000, incl. blade 1mm  
VF1847 TQC Cross-cut adhesion test kit CC1000, incl. blade 1,5mm

## ACCESSORIES

SP3007	Adhesion tape, single roll, adhesion to steel 4.3 N/cm
SP3010	Adhesion tape, set of 3 rolls, adhesion to steel 4.3 N/cm
SP3020	Adhesion tape, single roll, adhesion to steel 7.6 N/cm
SP1710	Nylon Brush for Cross Cut Adhesion Test
SP9700	Lighted Magnifier 2.5x

### Spare TQC knife acc. To DIN-ISO






VF2355	Teeth distance 1 mm
VF2357	Teeth distance 2 mm
VF2358	Teeth distance 3 mm

### Spare TQC knife acc. to ASTM

VF2359	Teeth distance: 1 mm
VF1861	Teeth distance: 1,5 mm

## USE

- Make two cuts/scratch, perpendicular to each other, drawing the handle with the appropriate cutter (depending on coating thickness and substrate) through the coating into the substrate thus making the lattice pattern.
- Brush the pattern lightly with the supplied brush several times back and forth along each of the diagonal lines of the lattice pattern.
- For hard substrates only the test can be extended by applying the adhesive tape parallel to one set of cuts over the lattice pattern and pull it off steadily in 0.5 to 1 sec. at a 60° angle within 5 minutes after applying.
- Carefully examine the cut area, if required using the magnifier and classify the test

Classification	Description	Appearance of surface of cross-cut area from which flaking has occurred (Example for six parallel cuts)
0	The edges of the cuts are completely smooth; none of the squares of the lattice is detached.	
1	Detachment of small flakes of the coating at the intersections of the cuts. A cross-cut area not significantly greater than 5 % is affected.	
2	The coating has flaked along the edges and/or at the intersections of the cuts. A cross-cut area significantly greater than 5 %, but not significantly greater than 15 %, is affected.	
3	The coating has flaked along the edges of the cuts partly or wholly in large ribbons, and/or it has flaked partly or wholly on different parts of the squares. A cross-cut area significantly greater than 15 %, but not significantly greater than 35 %, is affected.	
4	The coating has flaked along the edges of the cuts in large ribbons and/or some squares have detached partly or wholly. A cross-cut area significantly greater than 35 %, but not significantly greater than 65 %, is affected.	
5	Any degree of flaking that cannot even be classified by classification 4.	

## **SPECIAL CARE**

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- Clean with a soft and dry cloth. Do not use water or solvents.
- Avoid mechanical shocks or contact with sharp objects
- Always use high quality alkaline batteries. (Illuminated magnifier)

## **SAFETY PRECAUTIONS**

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- A knife is a sharp object. Be careful when using it.

## **DISCLAIMER**

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The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.