

## CROSS CUT ADHESION TEST CC1000

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

EN-ISO 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 KIT VF1856

- Soft grip handle (Excl. knife, this need to be ordered separately)
- Nylon brush
- Illuminated magnifier
- Adhesive tape (adhesion to steel 4.3N/cm)
- 4 mm Allen key
- Sturdy case

### SCOPE OF SUPPLY BASIC VF1848

- Soft grip handle (Excl. knife, this need to be ordered separately)

## ORDERING INFORMATION

VF1856 – TQC Cross cut tester CC1000 Kit (excl. knife)  
 VF1848 - TQC Cross cut tester CC1000 Basic (Holder excl. acc.)

VF2355 - Teeth distance 1 mm, acc. to ISO & ASTM  
 VF2357 - Teeth distance 2 mm, acc. to ISO & ASTM  
 VF2358 - Teeth distance 3 mm, acc. to ISO  
 VF2359 - Teeth distance: 1 mm, acc. to ASTM D3359<2009  
 VF1861 - Teeth distance: 1,5 mm, acc. to ASTM D3359<2009







Art-Nr.	VF2355		VF2357		VF2358	VF2359	VF1861
<b>Blades</b>	6		6		6	11	11
<b>Teeth distance</b>	1mm / 0,039 inch		2mm / 0,079 inch		3mm / 0,12 inch	1mm / 0,039 inch	1,5mm / 0,059 inch
<b>Acc. To</b>	ISO 2409	ASTM D3359	ISO 2409	ASTM D3359	ISO2409	ASTM D3359 <2009	ASTM D3359 <2009
<b>Coating thickness on hard substrates</b>	0-60µm / 0-2,4 mils	0-50µm / 0-2 mils	61-120µm / 2,4-4,8 mils	50-125µm / 2-4,9 mils	121-250µm / 4,8-9,8 mils	0-50µm / 0-2 mils	50-125µm / 2-4,9 mils
<b>Coating thickness on soft substrates</b>	-		0-60µm / 0-2,4 mils				

## 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

## 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 acc. to ISO. Acc. to ASTM within 90s (±30s) at a 180° angle.
- 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 6 parallel cuts)
ISO	ASTM		
0	5B	The edges of the cross-cut are completely smooth: none of the squares of the lattice is detached	
1	4B	Detachment of small flakes of the coating at the intersections of the cuts. A cross-cut are not significantly greater than 5% is affected	
2	3B	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	2B	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	1B	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	0B	Any degree of flaking that cannot even be classified by classification 4	

## SPECIAL CARE

- 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

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

## DISCLAIMER

The right of technical modifications is reserved.

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