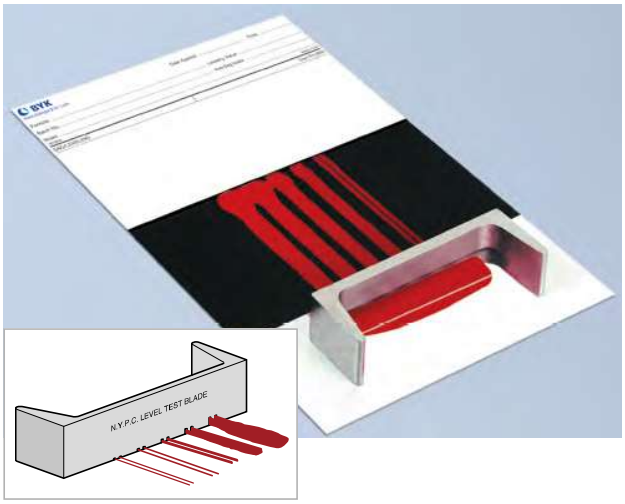
NYPC Leveling Test Blade

This instrument provides a means of evaluating the ability of a freshly applied coating to level before curing while reducing or eliminating marks caused by brushing or other means of application. Evaluations of leveling using this specially designed applicator correlate with, but are more consistent than, evaluations done by brushout. Since different factors influence leveling and sagging, tests for these properties should not be confused with each other. The leveling test is performed on a horizontal plane and is not a measure of sagging.

The New York Paint Club (NYPC) Leveling Test Blade is a U shaped film applicator with a shallow gap cut into one edge. Into this shallow gap is cut an evenly spaced series of five pairs of narrow notches having total clearances of 10, 20, 40, 80 and 160 mils. The applicator will produce a 4" wide drawdown, and has an overall width of 5".

A drawdown is made on a panel or chart using normal procedures. This produces five parallel pairs of ridges with a very thin (<0.5mil) distance between them. The drawdown is kept flat on a horizontal plane until the coating is dry and it is then evaluated. Leveling is rated on the basis of which ridge pairs of coating merged together and to what extent.



Complies with New York Society for Paint Technology

Standards

New York Society for Paint Technology Official Digest	No. 44, Vol. 32 No. 430, p. 1435

Ordering Information

Cat. No.	Description
0812	NYPC Leveling Test Blade

Technical Specifications

Shipping Weight	Net Weight	Dimensions
450 g (1 lbs)	340 g (12 oz.)	127 x 32 x 44.5 mm (5 x 1.25 x 1.75 in)

Comes complete with:
Test blade
Storage case

Leveling Test Blade

The Leveling Test Blade is designed to comply with ASTM method D 4062 to measure the leveling properties of water and solvent-based architectural coatings. The leveling blade creates parallel ridges to simulate brush marks. After the coating dries the drawdown is compared to plastic leveling standards.

The leveling test bar is a cylinder rod with alternating gap clearances of 100 and 300 microns (4 and 12 mils). Plastic side arms are a guide to maintain a straight blade movement.

Standards

ASTM	D 4062

Ordering Information

Cat. No.	Description
0813	Leveling Test Blade

Technical Specifications

Dimensions	Weight
185 x 100 x 25 mm (7.25 x 4.0 x 1.0 in.)	531 gm (1.2 lbs)

Comes complete with:
Test blade
Storage case

Anti-Sag Meter

Coatings applied on non-horizontal surfaces will sag due to gravity. Sag resistance is a factor of the composition and viscosity of the coating, as well as the applied thickness. The Anti-Sag meter allows quantification of the sagging properties of coatings.

- Quick test of the sagging of coatings on non-horizontal surfaces
- Available in most coating thickness ranges

The applicator is a U-shaped drawdown bar with a series of 1/4 inch (6.4 mm) wide notches of varying clearances, spaced 1/16 inch (1.6 mm) apart. The bar is 5 inches (127 mm) wide and produces a total film width of 3 3/8 inches (86 mm). When a drawdown is made, a series of parallel stripes of different wet film thickness will be formed. This panel is placed on a vertical surface with the stripes horizontal and the thickest stripe lowest. As the film stripes sag downward, some of the uncoated 1/16 inch (1.6 mm) spaces may become entirely covered. The clearance of the gap that produces the thickest film stripe, not sagging completely to the stripe below, is the anti-sag index of the coating.

Standards

ASTM	D 3730. D 4400

Ordering Information

Cat. No.	Description
5401	Anti-Sag Meter 3-12 mils
5402	Anti-Sag Meter 1-6 mils
5403	Anti-Sag Meter 14-60 mils
5404	Anti-Sag Meter 4-24 mils

Comes complete with:
Anti-sag meter bar
Storage case

Technical Specifications

Clearance Range	
Standard Range 76 to 305 µm (3 to 12 mils)	
Low clearance 25.4 to 152.4 µm (1 to 6 mils)	
High clearance 355.6 to 1524 µm (14 to 60 mils)	
Medium clearance 101.6 to 609.6 µm (4 to 24 mils)	
Dimensions	12.7 x 3.8 x 2.5 cm (5 x 1.5 x 1 in)
Net Weight	0.3 kg (0.625 lbs)
Shipping Weight	0.6 kg (1.25 lbs)

Leslie Applicator

This applicator is used for flow/leveling and sag testing. The design is similiar to the anti-sag meters with an extended gap range of 1 to 18 mils (25.4 - 457.2 microns). The 6 mil (152.4 microns) gap section is extended relative to the other gaps.

Ordering Information

Cat. No.	Description
5409	Leslie Applicator

Comes complete with:
Applicator
Storage case

Technical Specifications

Clearance Range	24.4 to 457.2 µm (1 to 18 mils)
Dimensions	17.8 x 5.56 x 2.54 cm (7.0 x 2.19 x 1.0 in)
Net Weight	0.8 kg (1.76 lbs)