

Penetration and Opacity Charts – Penopac

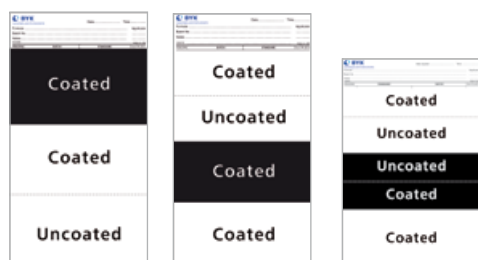
The test areas and functions of a penetration and opacity draw-down chart / drawdown card are combined with these charts. The penetration resistance is of special importance to architectural finishes. The ability to maintain a uniform appearance (color and gloss) on substrates with varying porosity can be evaluated by applying the paint over a test chart which has a coated and uncoated area. Thus, the penetration resistance is tested under severe conditions.

The penetration resistance is visually evaluated and can also be objectively evaluated by measuring color and gloss.



Save!

SAVE up to 30% when you buy 4 or more boxes!



Cat. No.
2818,2814

Cat. No.
2815, 2816

Cat. No.
2817

Ordering Information

Cat. No.	Description
2814	byko-chart Penopac 1A
2818	byko-chart Penopac 1B
2815	byko-chart Penopac 18A
2817	byko-chart Penopac 19BR
2816	byko-chart Penopac 18B

Technical Specifications

Material	Size	Qty/Box
Clearcoated / uncoated	140 x 254 mm (5.5 x 10.0 in)	250
Clearcoated / uncoated	194 x 289 mm (7.6 x 11.4 in)	250
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Opacity Measurement

Essential sales criteria for architectural paint are hiding power and yield. In other words:

- How many layers are necessary for complete coverage?
- And how many cans will be needed?

Opacity is a measure for hiding power:

$$\text{Opacity (\%)} = \frac{Y_{\text{BLACK}} \times 100 (\%)}{Y_{\text{WHITE}}}$$

100% opacity means complete hiding, no differences can be seen between the drawdown over black and white.

Procedure

A uniform paint film is applied on a black / white contrast chart. After air drying the drawdown can be objectively evaluated using the BYK-Gardner spectro-guide. The operator is menu guided through the measurement procedure and the opacity value is displayed automatically in a second.

The same procedure can be applied for transparent films and plastics.



spectro-guide color spectrophotometer