

# byko-spectra effect

## Visual Evaluation of Effect Finishes

Metallic and effect finishes are getting more and more popular in many applications like automotive, appliances, furniture or architectural elements to emphasize the design and make the color “alive”.

In contrast to solid colors, effect finishes change their color and appearance with viewing angle and lighting conditions. Metallic and interference pigments will not only change their lightness and color, but also their sparkling effect will be different when lighting conditions change from sunlight to cloudy sky.



To perform a standardized visual evaluation of metallic and effect finishes correlating to instrumental results of multi-angle spectrophotometers, like BYK-mac i, different viewing angles and viewing conditions are necessary:

- Lightness flop and color travel:  
45° illumination under daylight illuminant and 6 viewing angles: -15°/15°/25°/45°/75°/110°.
- Sparkling effect:  
Direct illumination under three angles 15°/45°/75° using bright LEDs and direct viewing.

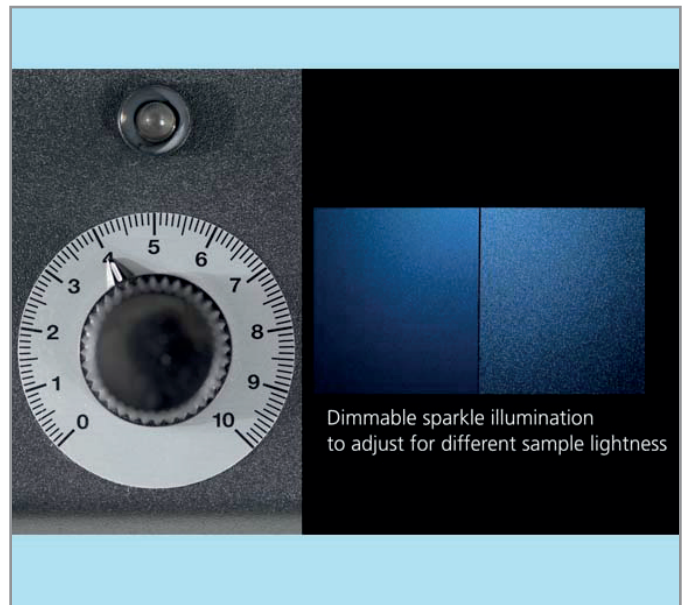
To enhance the direct illumination a black surrounding is important.



## Total Color Impression with Defined Light

With BYK-Gardner's byko-spectra effect light booth, it is now possible to set all these parameters and ensure visual evaluation under standardized conditions, which achieve the best agreement with instrumental evaluation.

- The high-quality daylight sources ensure quick and reliable color and effect judgement, without warm-up time or flickering.
- To simulate flake impression under direct sunlight bright white LEDs are used for illumination. Lifetime of the LED light sources is guaranteed for 10 years.
- The LEDs can be dimmed to adjust the lightness depending on sample type or user needs.



## Helpful Functions – Easy Operation

- Time tracker indicates how long the lamps are in operation and you exactly know when a replacement is necessary.
- A tiltable sample table allows the samples to be precisely evaluated at the six defined angles. The illumination system pivots together with the sample table.



<b>Catalog Number</b>	<b>6027</b>
<b>Short Description</b>	<b>byko-spectra effect</b>
<b>Power supply</b>	115/230 V, 50/60 Hz
<b>Light Source for Daylight</b>	Fluorescent tube
<b>Dimensions: L x W x H</b>	76 x 80 x 121 cm
	29.9 x 31.7 x 47.7 in
<b>Viewing Area</b>	32 x 60 cm (sample table)
	12.6 x 23.6 in (sample table)
<b>Weight</b>	58.8 kg
	127.2 lb

<b>Delivery Content</b>
Light booth, Short instructions

<b>Catalog Number</b>	<b>Short Description</b>
6026	Daylight Tube for 6027