



Lift your evidence to the highest level

BYDA
news

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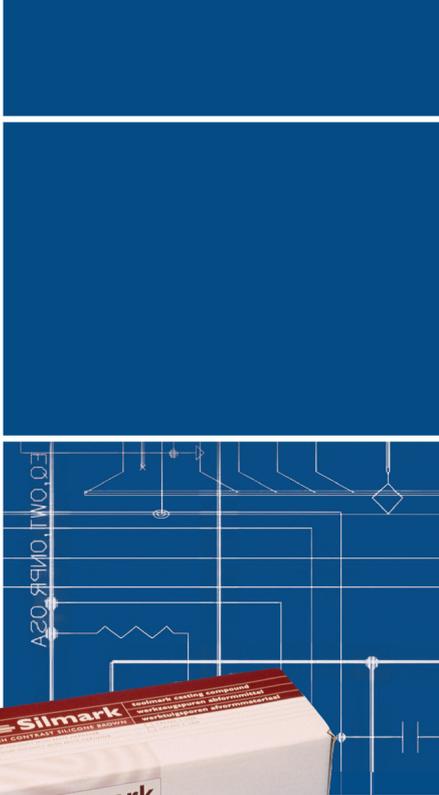
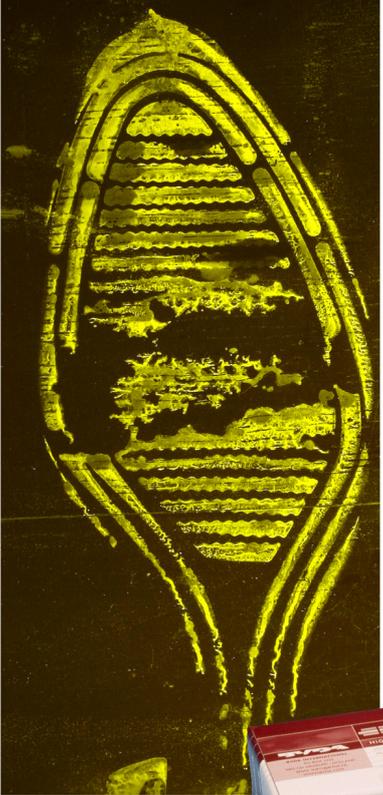
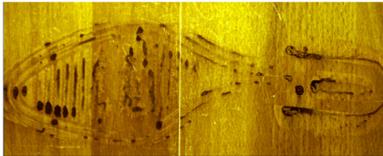
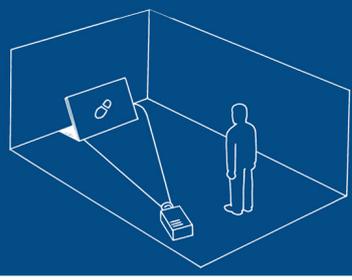
ACID YELLOW
fluorescent blood stain

SILMARK
now available in brown

GLS^{can}
novel system to digitally capture shoeprints

MIRROR TECHNIQUE
how to find shoeprints in dust on light-colored surfaces

LIFTING BLACK POWDER WITH A BLACK GELLIFTER?
Yes! this combination improves contrast



Mirror technique:
Above, position of the mirror and the light source.
Below, view in the mirror.

Acid Yellow 7:
Above, a stained shoeprint.
Below, the same shoeprint when excited with blue/blue-green light and photographed with an orange filter.
Image at the right shows the fluorescent shoeprint on a white Gellifter.



MIRROR TECHNIQUE

A useful technique for locating shoeprints in dust on light-colored surfaces.

Searching for shoeprints on dark colored surfaces can be done using oblique lighting. The shoeprints contrast well against the dark background.

Using this technique on a light-colored surface is almost useless. The shoeprints contrast poorly or not at all. The fingerprint powders sometimes used to visualize these prints may damage their fine details or completely obscure them. In the worst case, the shoeprint is overlooked completely.

There is, however, a good method for visualizing shoeprints on light-colored surfaces. For this method, a high-intensity light and a mirror are used.

More information about this technique is available for download from:
<http://usa.bvda.com/mirror>

ACID YELLOW 7

A new fluorescent staining solution for traces made in blood.

A new fluorescent staining solution for traces made in blood.

Acid Yellow 7 is a dye solution in a water/acetic acid/ethanol mixture that is used for staining fingerprints and shoeprints made in blood.

Prints in blood turn yellow after treatment with Acid Yellow 7 and fluoresce under blue/blue-green light.

An excellent bright fluorescence is obtained once the print is lifted with a white Gellifter.

For further product information, see: <http://usa.bvda.com/AY7>

SILMARK BROWN

Silmark brown expands the range of toolmark impression compounds.

Years ago, BVDA started manufacturing a gray-colored toolmark impression compound called Silmark. Shortly after its introduction, a black and a white version were added for the lifting of fingerprints on irregular surfaces.

Recently, BVDA introduced a brown-colored version of Silmark to expand its range of silicon based toolmark impression compounds.

Brown Silmark is supplied in a tube of 5.3 oz and comes with a tube of paste hardener, mixing sticks and, mixing papers. The brown-colored Silmark is available in two versions. The medium viscosity version, to be used at the crime scene, is thicker than the low viscosity version which is developed especially for making laboratory test impressions.

The ratio of silicon material to paste hardener is well balanced. Sufficient hardener is supplied with the set that, under average circumstances, no additional hardener will be needed.

Silmark and related products can be ordered online:
<http://usa.bvda.com/silmark>



GLS^{can}:

Image at near left: a shoeprint on a black Gellifter scanned with the GLS^{can}. The result is an evenly illuminated and distortion-free image.

Image at far left: the high resolution provided by the GLS^{can} enables the examiner to carry out an in-depth examination of shoeprints.

Lifting black fingerprint powder with a black Gellifter?

Yes, the combination gives a perfect contrast, as shown below.



GLS^{can}

PERFECT CONTRAST

Simple and efficient recording of traces on Gellifters.

Digital imaging has made major inroads in crime-scene units and forensic departments all over the world. Digital photography has many advantages over traditional photography: savings on material costs, film development, storage space, and time. Results are available instantaneously and, if not satisfactory, a new image can be taken immediately.

However, the resolution of certain images is not always adequate. In most cases, like shots of a single fingerprint or overviews of a crime scene, the resolution is sufficient for the intended use. A problem is encountered when a shoeprint needs to be photographed. Enlargement of this kind of trace may result in dpi (dots per inch) resolution that is low and unsuitable for making comparisons.

The GLS^{can} is the first digital system for the recording of Gellifter shoeprint traces that can surpass traditional photography.

GLS^{can} offers simple and efficient recording of traces on Gellifters, perfectly illuminated and at a high resolution.

GLS^{can} is the only realistic option

In May this year, the GLS^{can} was introduced at SPTM 2005 (ENSFI working-group meeting of shoeprint and toolmark examiners) in Stavern, Norway. More recently the GLS^{can} was installed for a two-week trial at the Forensic Analysis Unit of Metropolitan Police in London, UK. Bob Milne, manager of the unit, about the GLS^{can}:

"...two non-forensically trained Data Inputting staff imaged the entire photographic backlog of gellifts (more than 100 lifts) in two days. The comparison against the cost of a photographer at £1000 a week in salary & equipment, pension, etc; shows the scanner would show a cost benefit in less than a year against hiring even one employee.

In reality, when we go down the route of screening all suspects against lifted marks, the GLS^{can} is the only realistic option to ensure scenes of crime marks are in the system on time for real-time searching...."

A complete brochure can be downloaded from:
<http://usa.bvda.com/glscan>

Lifting black fingerprint powder with a black Gellifter?

It doesn't seem logical, but pairing the two gives the best contrast. Black fingerprint powder diffusely reflects a small percentage of incident light, whereas the glossy black Gellifter absorbs light and displays mirror-like reflection. A print lifted with a black Gellifter can be photographed with higher contrast, especially in its weaker parts, than a print lifted with a white Gellifter.

Viewing and photographing the fingerprints which are developed with a black fingerprint powder should be done using a bright white light. The camera and the light should be as close together as possible, to approximate coaxial lighting.

BVDA recommends the use of black Gellifters with shoeprints in dust and fingerprints visualized with all colors of fingerprint powder as well as superglue-developed prints and indented writing.



gellifters®

BVDA

GROUP

BVDA is a fully integrated forensic manufacturing company that develops, fabricates and markets advanced forensic products.

Founded in 1934, the company has grown by diversifying its product lines and through increased research and development.

It's primary market is law enforcement.

BVDA's objective is to produce advanced and cost effective products that enable customers to reach higher levels of performance.

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