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Covering PU

BOMIX® FINGERPRINT TECHNOLOGY

PRODUCT IDENTIFICATION, UNIQUE

Protection against plagiarism - safety along the value chain.

Every year a large number of counterfeited products appear on the market.

Counterfeiters cause multi-billion losses when complaints about an imitated product are processed by the original manufacturer using a lot of work and cost expenditure. BOMIX has now developed an intelligent solution: *Bomix® Fingerprint Additive*. Using this, plastic parts can be clearly identified in a tamper-proof and court-proof manner. The easy and flexible handling and addition in coatings, In-Mould-Coatings or pastes are conclusive.

Covering PU; for BOMIX this means high-quality surface refinement and common development of individual solutions for every challenge – economical, sustainable and environmentally conscious.

TECHNOLOGY DESCRIPTION

Bomix® Fingerprint Additive is an additive which is activated by UV light which, together with *Bomix® Coatings* or *Bomix® Mould Coatings*, applies a tamper-proof marking to the plastic part. Moreover, the additive can also be worked directly into the foam system via paste. Additionally, it is possible to use it in a user's existing coating system. The additive can subsequently be read with a special device.

The quantity added varies according to colour shade, substrate and application and can be optimised for individual applications. *Bomix® Fingerprint Additive* impresses with outstanding properties which include temperature resistance up to 1800°C (forensically applicable) and recognition that will stand up in court.

The identification process can take place in two different ways according to the application: On the one hand, there is the sensory identification for which an additive concentration of > 0.1 - 1.0% is required. This is clearly detected within seconds using a mobile sensor. On the other hand, detection takes place using a patented laboratory-based analysis procedure. The additive concentration can be reduced to < 0.1% here.

FIELDS OF APPLICATION

The *Bomix® Fingerprint Additive* produces an irreproducible fingerprint. Even small areas or lettering, are enough for reliable recognition. Optimal areas of application open up in markets with brand name products for Lifestyle (e.g. footwear, furniture), Mobility, Building & Construction and Health/Rehab.

YOUR ADVANTAGES AT A GLANCE

- **Function and design:** High level of physical stability, optically non-visible
- **Effective and reliable:** Quick and cost-effective checking. Even small traces of the *Bomix® Fingerprint Additive* on a small surface are enough for clear identification
- **Wide application window:** No influence on material properties, universally applicable
- **Environmentally-friendly attributes:** Chemically and toxicologically harmless
- **Customised solutions:** Individual adjustments according to customer wishes

BRIEF PRODUCT PROFILE

<i>Product examples:</i> Bomix® Fingerprint Additive Bomix® Coatings Bomix® Mould Coatings Bomix® PU-Pastes	Addition in user's existing system after prior impact assessment Solvent- and water-based coatings with <i>Bomix® Fingerprint Additive</i> PU (polyol) with <i>Bomix® Fingerprint Additive</i>
<i>Substrates:</i>	Polyurethane as well as diverse thermoplastics A number of substrates are possible through incorporation into the coating system
<i>System:</i>	<i>Bomix® Fingerprint Additive</i>
<i>Shades of colours:</i>	Available in a number of colour shades
<i>Special features:</i>	Court-proof recognition

BOMIX CHEMIE GMBH – COVERING PU

ONE SOURCE PARTNER FOR POLYURETHANE SURFACE REFINEMENT

As an experienced system partner, Bomix Chemie GmbH from Telgte near Münster (Germany, North Rhine-Westphalia) offers everything from one single source: in-house development know-how, high-quality and customised products, expert advice and excellent on-site service. Innovative product solutions are developed in close collaboration with the customer and are specifically tailored to individual applications.

"Covering PU" has determined the companies thinking and actions since 1975. From innovative release agents to multifunctional In-Mould-Coatings and high-quality topcoat systems, Bomix offers a high-performance product range that meets the multifaceted applications of the polyurethane industry. Matching PU pigment preparations and various auxiliaries round off the product range.

Bomix has been part of the Berlac Group's brand portfolio since 2003. The globally active group of companies develops and produces sophisticated solutions for surface refinement, surface protection and colouring of plastics.