



Covering PU

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BOMIX® COATINGS, FUNCTIONAL SURFACES **ADDED VALUE FOR FUNCTION AND VISUAL EFFECTS**

Within the field of functional surfaces, BOMIX has developed *Bomix® Coatings* and *Bomix® Mould Coating* systems, which are setting new standards. They satisfy the most advanced requirements as regards to adhesion and resistance, and provide the surface refinement function in addition. In this way, BOMIX opens up new and interesting possibilities for functional features and visual design of PU components. 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

The basic components of the *Bomix® functional Coatings* are high quality polyurethane components; based on 1K or 2K spray coating systems. After the appropriate pre-treatment, they can be used on various surfaces for a wide range of applications thermoplastic (ABS, PS), PU, GRP. All standard application techniques can be used, including high-pressure, airless or electrostatic. The selection of colours is large, and many of the functional solvent-based coating systems are also available as environmentally friendly water-based systems.

ATTRIBUTES

- **Conductive:** Conducting of an electrical charge established on the surface of the component
- **Biocompatible / Antimicrobial:** Tested according to DIN EN ISO 10993-1, -5, -12 / JIS Z 2801
- **Flame protection:** Improvement of the coating with a flame retardant attribute
- **Soft-feel / anti-slip:** Configuration of the coating with special haptic (such as nubuck leather). Increasing the frictional resistance due to rubberised surface
- **Abrasion resistance / Bonded coating:** Improvement of the mechanical resilience
- **Easy-to-clean:** Easy removal of graffiti and dirt accumulations

FIELDS OF APPLICATION

Bomix® functional Coatings meet a range of different requirements concerning the surface refinement of plastic components. They are used in numerous markets with the focal points on the areas of Lifestyle, Health/Rehab, Mobility and Aerospace.

EXAMPLE APPLICATIONS

- **Conductive:** OP mats, Ergo floor mats, car manufacturing
- **Biocompatible / Antimicrobial:** Sanitation applications and medical technology
- **Flame retardant:** Train, aerospace and automotive
- **Soft-feel / anti-slip:** Clothes hangers, tablets, automotive interiors
- **Abrasion resistance / Bonded coating:** Aircraft, automotive, consumer
- **Easy-to-Clean:** **Bus and train, public areas e.g. fuse cabinets**

YOUR ADVANTAGES AT A GLANCE

- **Function and design:** Creation of high-quality functional surfaces
- **Protective function:** Surface protection due to high abrasion and scratch resistance
- **Wide application window:** High-pressure, airless or electrostatic
- **Environmentally-friendly attributes:** Mainly water-based systems available
- **Customised solutions:** Adaptation of the *Bomix® Coating* systems to *Bomix® Release Agents* and necessary pre-treatment with *Bomix® Cleaner* and *Bomix® Primer*

BRIEF PRODUCT PROFILE

<i>Product examples:</i> Mobility (e.g. acoustic parts, engine cover) Mobility (e.g. airline armrests) Lifestyle (e.g. gym mats) Building & Construction (e.g. window shutter) Health/Rehab (e.g. medicinal furniture) Biocompatibility (Health/Rehab) Antimicrobial (Health/Rehab e.g. Aerospace)	<i>Bomix® Coating, Bomix® Mould Coating</i> Series 1400 (flame retardant) Series 1700 (flame retardant) Series 7800 (flame retardant / abrasion resistant) Series 1400 (abrasion resistant) Series 7950 (rigid foam / outdoor exposure) Series 2750 (disinfectants resistant / flame retardant) Series 7950 (disinfectants resistant / conductive) Series 2800 (biocompatible: DIN EN ISO 10993-1, -5, -12) Series 7800 (antimicrobial: JIS Z 2801)
<i>Substrates:</i>	Polyurethane, GRP and thermoplastic (ABS, PS)
<i>Systems:</i>	1K or 2K, solvent-based and water-based
<i>Shades of colours:</i>	A wide range of colours possible
<i>Special features:</i>	According to the respective requirement, also as combinations of different attributes, e.g.: <ul style="list-style-type: none"> • Flame retardant and high abrasion resistance • Conductivity and biocompatibility
<i>Approvals:</i>	According to national and international standards as well as a range of customer requirements, e.g.: <ul style="list-style-type: none"> • Conductive surfaces: ISO 2878:2011-09 • Biocompatible surfaces: DIN EN ISO 10993-1, -5, -12 • Antimicrobial surfaces: JIS Z 2801 • Flame retardant surfaces: DIN 4102B1 and fire behaviour of the interior fittings / acoustic of cars RL 95/28/EGB1, FMVSS 302, DIN EN 1021-2 (upholstered furniture) • Chemical resistance: DIN 2812-3 and DIN 2812- 4, others by request

Technical product questionnaire can be found on www.bomix.com/en/service/download-center

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.