

# COVERING PU

EN



## HEADLINERS

- 1-2 One source partner for polyurethane surface refinement.
- 3-4 Tailor-made solutions, optimal process coordination.
- 5-6 Release agents. Process and surface optimisation.
- 7-8 Conventional Coating-Systems. Functional surface refinement.
- 9-10 IMC-Systems. Surface refinement directly in the mould.
- 11-12 PU-Paste. Direct colouring, Tailor-made.
- 13-14 Auxiliaries. Maximum process reliability.



#### YEARS OF EXPERIENCE.

Optical and haptic refinement of polyurethane (PU) surfaces is the field of speciality for Bomix Chemie GmbH (Bomix). Innovative solutions play a vital role. Founded in 1935 as "Ernst Böttler KG, Bomix-Chemie" and based in Telgte/Westphalia since 1965. Today we consider ourselves to be one of the market and technology leaders within the range of PU surface refinement.

#### MEMBER OF THE BERLAC GROUP.

In 2003 we became a member of the Swiss Berlac Group; they are a world-wide leading manufacturer of special coatings and effects for the design-oriented industry. Our customers benefit from this strength; inside the Berlac Group we exchange our know-how within process optimisation and ensure our delivery capacity with the increased number of production locations.

#### ONE PARTNER, COVERING PU.

As a one source partner for PU surface refinement we offer complete solutions, our own research and development, tailor-made products, competent support and personal service onsite. Since 1975 we have provided innovative products within the field of release agents for the PU market. Our release agents form an integral part of our ever broadening product range that also includes: Conventional coating systems, In-Mould-Coatings, Pigment preparations and various auxiliaries.

We develop products in close cooperation with our customers and adapt the solutions accurately to the respective application – in this field we rank among experts.

ONE SOURCE PARTNER  
FOR POLYURETHANE  
SURFACE REFINEMENT.



## TAILOR-MADE SOLUTIONS, OPTIMAL PROCESS COORDINATION.

### TECHNICAL SERVICE ONSITE.

Our technical service is highly appreciated and recognised: When required; our skilled technical sales team play an active part onsite in the preparation of coatings, pastes and release agents before processing, education and guidance of workers at the PU machine enabling a smooth and continuous production flow. Our world-wide technical sales team together with our local sales partners offer a wide range of support for global companies within PU-processing.

### VARIOUS APPLICATIONS.

According to the broad characteristic profile of the PU foam material; Bomix release agents fulfil the customer's requirements and are used in a multiple of demanding PU-applications. We are global players in the following markets: transport (automotive, rail and aerospace engineering), footwear and furniture, medical and Rehab industry as well as production of commercial items.

### HIGH QUALITY STANDARDS.

Due to optimal process coordination; we are able to respond quickly and reliably to our customer's requests. Our development cycles are short and our quality standards are high. Since 1996 we are certified in accordance with DIN EN ISO 9001.



### **Markets:**

Automotive sub-suppliers  
Footwear manufactures  
Furniture industry  
Medical / Rehab  
Technical items

### **SUSTAINABILITY MANAGEMENT.**

As a chemical company we feel particularly obligated to the principal of Sustainability Management. In our corporate philosophy we consider aspects such as economic, ecological and social responsibility. We participate in the „Responsible Care“ program of the Association of the chemical industry (VCI) for „Acting responsibly in terms of safety and protection of environmental and human health“.

### **EDUCATION AND TRAINING.**

We educate young people within technical and commercial areas and offer students from universities and colleges the chance to realise innovative ideas by Bomix. We provide good and safe conditions for our workers and promote their continuing education actively. Work safety is of high importance to us. We deal in a spirit of mutual confidence with our customers and partners; companies, that have given us their loyalty through-out the years.

### **ECOLOGICAL COMMITMENT.**

The future of our company is secured through regular Capital Investment, e.g. in the expansion and modernisation of the production capacities. We comply with all environmental regulations and consider development of alternative, environmentally friendly products as part of our ecological commitment. Our focus here is mainly placed on High Solid, solvent-free and water-based release agents, as well as water-based coatings.

COVERING PU. Tailor-made solutions, optimal process coordination.



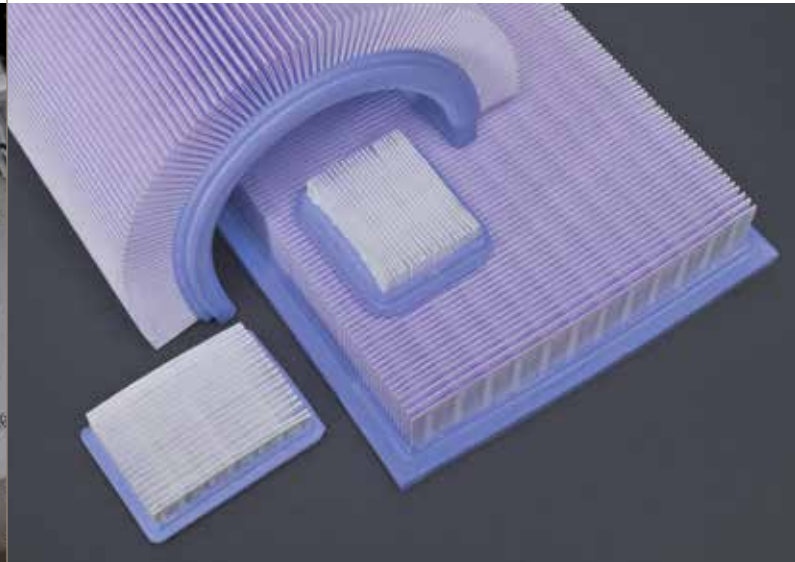


## RELEASE AGENTS. PROCESS AND SURFACE OPTIMISATION.

Release agents from Bomix are used in numerous ways in the production of polyurethanes products. They ensure easy handling and a clean removal of the PU-component from the mould. This offers Bomix customers specific process advantages. They include high cost-efficiency, reduced processing times and minimised rejection rates.

Additionally, Bomix release agents can affect the character of the PU-substrates, e.g. their gloss level, optics and surface texture to name a few. For decades Bomix have been prominent in the development of environmentally friendly release agents including solvent-free and water-based systems.

Due to our specialised production small quantities are available.



#### BOMIX RELEASE AGENTS – PERFORMANCE FEATURES:

Environmental safety, maximum economy,  
process reliability, cost-efficiency, workplace  
health and safety, surface optimisation,  
optimised release effect

#### RELEASE AGENT TYPES - CUSTOMISED SOLUTIONS:

Conventional release agents (solvent-based)  
LF Release agents (solvent-free)  
High Solids (free of CHCs)  
Water-based release agents  
Silicone-free release agents  
(as High Solids and water-based systems)  
Release pastes (as water- and solvent-based systems)

#### **Markets:**

Automotive sub-suppliers  
Footwear manufactures  
Furniture industry  
Medical / Rehab  
Technical items



## CONVENTIONAL COATING-SYSTEMS. FUNCTIONAL SUR- FACE REFINEMENT.

For the different operational areas of PU-foam types (hard to high-flexible) Bomix offers conventional coating-systems fulfilling the various requirements of the PU-surfaces. Conventional coating-systems from Bomix are the ideal solution meeting functional characteristics and creating problem-free processing.

Numerous colour possibilities are available (RAL, RAL Design, HKS, Pantone and NCS) in water-based and conventional systems (Single or two-component). They can be equipped with additional special characteristics.

Bomix develops and produces high-quality functional coating systems for thermosetting plastics (TR, PVC, PS, PP and ABS). Individual requested colours according to customer requirements can be as well as the supply of small quantities.





#### BOMIX COATING-SYSTEMS - PERFORMANCE FEATURES:

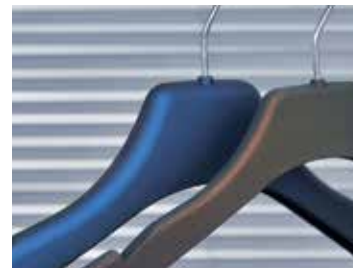
Flexibility (shore hardness A > 20), weather resistant and light fastness, abrasion resistant, resistance to chemicals and cleaning agents, antimicrobial treatments, non-slip characteristics, soft touch and structure effects, flame-retarding features, electrical conductivity, anti-graffiti effect, extremely high adhesion (after appropriate preparation)

#### CUSTOMISED SOLUTIONS:

Available according to NCS, Pantone, RAL and RAL-Design, Colour matching also to customer specifications, water-based and conventional systems, single or two-component

#### **Markets:**

Automotive sub-suppliers  
Footwear manufactures  
Furniture industry  
Medical / Rehab  
Technical items



# IMC-SYSTEMS. SURFACE REFINEMENT DIRECTLY IN THE MOULD.



In-Mould-Coating (IMC) has been established as a cost-efficient and high value-added technology. It offers an integrated form of surface refinement.

By the use of Bomix IMC-systems; high-cost pre-treatment and post-painting are no longer required. Mould temperatures over 40° C make the use of water based IMC-systems possible. As a result the use of organic solvents can be avoided.



Using the IMC-procedure; good results are obtained as regards to flexibility (shore hardness A > 15), abrasion resistant and release friendliness. Functional IMC-systems (e.g. flame-retardant, conductivity, surface texture, anti-microbial properties) complete the offer.

Bomix offers all colour blends and systems as well as colour matching after receiving customers' samples. Small quantities are available, when needed.



**Markets:**

Automotive sub-suppliers  
Footwear manufactures  
Furniture industry  
Medical / Rehab  
Technical items

**BOMIX IMC-SYSTEMS -  
PERFORMANCE FEATURES:**

Flexibility (shore hardness A > 15), weather resistant and light Fastness, resistance to abrasion, self-release effect, resistance to chemicals and cleaning agents, antimicrobial treatments, non-slip characteristics, flame-retarding features, electrical conductivity, extremely high adhesion

**CUSTOMISED SOLUTIONS:**

Available according to NCS, Pantone, RAL and RAL-Design, Colour matching also to customer specifications, water-based and conventional systems, single or two-component



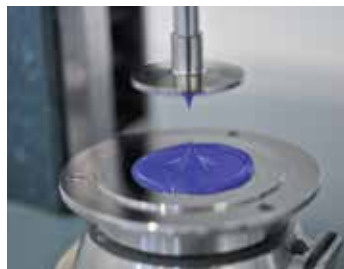
# PU-PASTE. DIRECT COLOUR- RING, TAILOR-MADE.

Bomix supplies PU-pastes for the direct colouring of polyurethane-foams. The optimised dispersion of organic and inorganic pigments in suitable base materials guarantees a constant uniform quality.

The PU-pastes can be incorporated into a wide range of PU-systems. They are suitable for mixing-head feed and can be supplied in differing viscosity levels.

Bomix matches the products exactly after receiving the customer's request (RAL, RAL Design, HKS, Pantone, NCS or their colour samples). Depending on specific requirements; the foams can have additional characteristics such as improved UV-stability.

With tailor-made products and the option to supply also small quantities; Bomix offers optimised solutions.



## BOMIX PU-PASTES – PERFORMANCE FEATURES:

Good miscibility, good metering characteristics, high color intensity, trouble-free use of lightfast pigments, optimised viscosity, UV stability, excellent storage stability

## CUSTOMISED SOLUTIONS:

Available according to NCS, Pantone, RAL and RAL-Design and Colour matching to customer specifications

## **Markets:**

Automotive sub-suppliers  
Footwear manufactures  
Furniture industry  
Medical / Rehab  
Technical items





## AUXILIARIES. MAXIMUM PROCESS RELIABILITY.

Bomix Auxiliaries support and optimise application of coatings and release agents and guarantee an effective production flow.

Mould cleaner, cleaners, primers, wiping fillers and dilutions belong to this portfolio. The products in the Bomix mould cleaner group are ideal for cleaning of process equipment and moulds. The advantages: high release strength of PU and release agent residues.

Primers, cleaners and wiping fillers provide an ideal preparation for the coating process and an improved adhesion of the coatings to the substrate.

The adjustment to ensure an effective processing viscosity can be achieved with the use of Bomix dilutions.



**BOMIX AUXILIARIES –  
PERFORMANCE FEATURES:**

Cleaning of moulds and moulded parts, high residue-removal action, ideal preparation for coating of the moulded parts, improved coat adhesion, achievement of ideal application viscosities

**AUXILIARY TYPES -  
CUSTOMISED SOLUTIONS:**

- Primers / RUB-Primers
- Wiping fillers
- Mould cleaners
- Thinners / Cleaners

**Markets:**

- Automotive sub-suppliers
- Footwear manufactures
- Furniture industry
- Medical / Rehab
- Technical items





**BOMIX**  
BERLAC GROUP

Bomix Chemie GmbH  
Gildeweg 6-10  
48291 Telgte / Germany  
Phone +49 2504 924 0  
Fax +49 2504 15 42  
info@bomix.com  
www.bomix.com

Our technical service, in word, writing and through trials are effective. Our best knowledge however, is only considered as a non-committal reference, also regarding any third patent rights, and does not release you from the own examination of the products, supplied by us. As regards to their suitability and security for the intended procedures and purposes. Application, use and processing of the products take place outside our ability to observe and is therefore exclusively in your area of responsibility. In all other aspects our general terms of delivery and sales are valid.