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Covering PU

BOMIX® COATINGS
ADDED VALUE AND VERSATILE

Bomix® Coatings have established themselves as guarantors for high-quality and optimum top coats. BOMIX offers them as customised solution for a wide range of substrates: from highly flexible to rigid, in water- or solvent-based form. The systems can also be given functional attributes such as conductivity or flame retardant, if desired.

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 elements of both the solvent-based and water-based *Bomix® Coatings* are based on polyurethane and/or acrylate components. They are primarily formulated as 2K spray coating systems. This guarantees good durability and adhesion attributes. Due to their excellent stability on vertical surfaces, the *Bomix® Coatings* enable a very high coating thickness. They can be recoated with all standard topcoat systems, and can be processed with all standard application techniques – high-pressure, airless or electrostatics. The long pot lives are just a further outstanding feature with this application.

FIELDS OF APPLICATION

In combination with the substrate-specific pre-treatment methods, the *Bomix® Coatings* adhere superbly to a wide range of substrates. Automotive suppliers and manufacturers of commercial vehicles value this reliability especially. They use *Bomix® Coatings* for car body parts such as bumpers, rear and roof spoilers. *Bomix® Coatings* have also proven popular in a wide range of technical applications in the areas of rehabilitation, sanitation and medical technology, as well as in the lifestyle segment, with furniture manufacturers and consumer goods, for example.

YOUR ADVANTAGES AT A GLANCE

- **Process costs optimisation:** Preparation of the surface for an optimum tension and adhesion of the subsequent top coat resulting in more economical use for the top coat
- **Environmentally-friendly attributes:** Low VOC with water-based *Bomix® Aqua Coating*, free of aromatic compounds with solvent-based *Bomix® Coating*
- **Excellent product and processing attributes:** Guarantee the perfect structure, provides levelling of uneven substrates and an excellent recoatability
- **Customised solutions:** Extended range of colours, adjustment of functional requirements, adaptation to specific customer requirements

BRIEF PRODUCT PROFILE

Product examples: Mobility, Health/REHA, Lifestyle (e.g. furniture, medical parts)	*Bomix® Coating, Bomix® Aqua Coating* Coating (Flexible) Series 2550 Water-based Series 7850 Solvent-based Coating (Rigid) *Only on request!*
Substrates:	Integral foam (flexible – rigid), Duromer, RIM, composite (EP and PU), injection moulding parts, e.g. PS, PA and ABS (after substrate-specific pre-treatment)
Shades of colour:	Standard: grey, anthracite, black, white, can be determined according to customer request
Special features:	• Universal use (controlled by use of dilution) • Very good adhesion and flow properties • Excellent uniformity and cohesion attributes • Levelling of uneven substrates • Excellent recoatability • Fast surface and through drying (wet-in-wet application possible)

TEST RESULTS

Adhesion / cross-section:	RIM substrate, DIN EN ISO 2409 • Prime Coating 25µm: GT0 at 1mm (< 60µm TSD) • Base Coating 40µm: GT0 at 1mm (< 60µm TSD) • Filler 70µm: GT0 at 2mm (< 60µm TSD) Further plastic substrates, DIN EN ISO 2409 • With appropriately good pre-treatment cross-cut GT0–1
Condensed water-constant-climate: *240 hours at 40 °C condensed water-constant-climate (100% air humidity)*	DIN EN ISO 6270-2 (DIN 50017) • Test 1, cross-cut: Result 1h after exposure GT0-1 • Test 2, blister density (DIN EN ISO 4628-2): no blisters and/or changes in colouration, no softening (m0/g0)
Drying:	10 min. flash-off time (depending on the wet layer thickness) at room temperature • 30 min. forced drying at 60°C • 20 min. forced drying at 80°C • 24 hours at room temperature

All tests are completed with top-coated components!

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.