# BERLAC® REFLEXION: UNIQUE CHROME LOOK FROM SIMPLE LACQUER COATING

As a pioneer in the development of chrome replacement paints, Berlac AG includer Re exion in its portfolio, a mirror-smooth 3-coat paint system in automotive quality which stunningly imitates the appearance of chromed surfaces to a standard never achieved on the market so far. The results produced in automated coating processes on the widest range of component geometries are those obtained by electroplating or PVD metallisation.

With Berlac® Re exion being an environmentally-friendly alternative to real chrome processes, designers in the automotive industry and all other life-style-oriented industrial sectors are unbound by any limits when it comes to demanding plastic application with visually re ned high-end surfaces, even following the introduction of the Chrome VI ban.

### TECHNICAL DESCRIPTION.

The 3-coat system consisting of PUR primer, base coat and PUR clear coat combines outstanding resistances with a wide spectrum of chrome effects. The cornerstone of Berlac® Re exion is a speci cally designed primer as an adhesive bridge to many different substrates. Explicitly tailored to this primer and to the clear coat, the very thinly applicable, yet high coverage exion base coat with special re ective pigments enables in compliance with strictly predetermined spraying and drying parameters brilliant effects together with an

exceptional adhesion between the base coat and the clear coat. Compared to a conventional silver pigment, the pigments used in the exion base coat ensure a stronger op effect and a more intense re ection. The subsequent clear coat additionally protects against weathering in uences, as well as mechanical and chemical impact and allows various levels of gloss.

### FIELDS OF APPLICATION.

Berlac® Re exion has been approved by the automotive industry for both interior and exterior uses. Typical application areas include trim strips and covers, ventilation rings, operating elements as well as emblems and logos.

Berlac® Re exion is the perfect choice for the automotive industry since it represents an alternative surface nish to galvanising and PVD coating. It complies with REACH requirements, provides corrosion resistance for critical exterior components, is hardly affected by bottlenecks in contract production capacity and offers persuasive economic advantages, especially in respect of high-volume models.

The coating system is also ideal for all manner of deco rative applications in other sectors where a top-quality chromed surface is required, but where economic considerations preclude conventional chromium plating or PVD metallisation.

### YOUR ADVANTAGES AT A GLANCE.

Broader colour palette for designers; in the realm of spray paints

Economical processing: no need for expensive supplementary technologies

Reliable application:selective qualification of contract coaters worldwide in coordination with the OEMs in the automotive industry

Unlimited capacity: can be used with conventional coating equipment

Broad application spectrum: suitable with all component sizes, shapes and thicknesses and a wide range of substrates

Potential for functionalisation: laser-engravable and translucent, designed for post-process printing by means of pad printing

Environmentally-friendly technology with a future: contains no REACH-critical ingredients such as Chrome (III and Chrome (VI)

Highly resistant coating solution: complies with German automotive specifications (interior and exterior uses)

### PRODUCT PROFILE.

Tested in compliance with	
Tested on	
Substrates	
Application	
System	
Levels of gloss	
Colours	
Special properties	
OEM approvals	

### TEST RESULTS.

Cross-cut adhesion	
Scratch resistance 4N and ngernails	
Abrasion resistance, Crockmeter 2000 double strokes	
Heat storage, 216 hours (90 days) at 90°C	
Condensed water-constant climate, 240 hours/40°C at 96% humidity + 1 hour regeneration	
Hydrolysis test 168hours/90°C at 96% humidity (climate chamber)	
Resistance under the in uence of temperature 24 hours/60°C (Coca Cola, orange juice, Nivea Sun SPF15, Nivea cream, sun lotion test blend)	
Resistance to hand cream and sun lotion, 2#ours/80°C	
Steam jet test, 150mm distance, water temperature 60°C, 60 sec., pressure 90 bar	
Stone impact test	

# BERLAC AG – COATING SYSTEMS TO GIVE YOUR PRODUCTS STRIKING ADDED VALUE.

### PROVEN KNOWHOW.

Since 1928, our speciality has been the production of premium-grade special and effect coatings as well as printing inks for decorative and functional applications on plastic, chromium-plated and metallised substrates, carbon bre composites, metal and glass.

#### COMPREHENSIVE SERVICE

Whether you are an industrial contract coater, a tier-one or tier-two supplier coating in-house or an OEM, you will nd us your ideal development partner for innovative niche solutions that call for interdisciplinary knowhow and precise adjustment to the processes of all your supply-chain partners. We accompany your innovative surface projects in close collaboration every step of the way from initial concept to technical ne-tuning for series applications on site.

## COMPLETE SOLUTIONS FROM A SINGLE SOURCE.

Our comprehensive expertise and experience in manu facturing a product portfolio that ranges from primers through to printing inks enables us to supply ideally coordinated integrated solutions (thermal and UV-curing) in the realm of solvent-based and waterborne spray coating systems and industrial screen and pad printing inks. Our innovative solutions for demanding coating tasks – also available in very small batches and for small series production – cater primarily to the following sec tors: automotive, spectacle frames, domestic appliances, hearing aids, children's toys, medical technology, sanitary ttings, writing implements, sport and leisure, watchmaking and jewellery.

### EXPERTS IN COATINGS.

Headquartered in Sissach, just outside Basel in Switzer land, Berlac AG is one of the eight brands that comprise the Berlac Group, a globally active group of medium-sized companies committed to the development and manu facture of top- ight solutions for nishing and protecting surfaces and for colouring plastics.



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