



BERLAC
BERLAC GROUP

Lacquers and Effects

Berlac AG . Allmendweg 39
4450 Sissach . Switzerland
Phone +41 (0)61 976 90 10
Fax +41 (0)61 976 96 20
info@berlac.ch . www.berlac.ch

081.999.190 BLM 12953 HARD-WEARING UV-CLEAR COAT

PRODUCT IN BRIEF

<i>System:</i>	1comp. UV-curing clear coat
<i>Binder system:</i>	urethane acrylate
<i>Degree of gloss:</i>	high gloss: 91GU measured at 20°
<i>Viscosity:</i>	75 mPa s (no additional thinner needed)
<i>Substrates:</i>	PC, PC/ABS, PMMA, etc.
<i>UV-curing:</i>	undoped high-pressure mercury vapour lamp (80-240 W/cm ²) <ul style="list-style-type: none">• energy density: 200 mJ/cm²• energy intensity: 120 W/cm² (measured within UV-C range with EIT Standard Power Puck® II)
<i>Special properties:</i>	<ul style="list-style-type: none">• 100% solids content (VOC-free)• excellent scratch resistance• high transparency• excellent direct adhesion on a broad range of plastic materials
<i>Distinguishing characteristics from conventional/ solvent-based clear coats:</i>	<ul style="list-style-type: none">• shorter processing times due to rapid curing• better profitability through cycle time reduction• minimized emissions due to VOC-free formula• lower energy consumption during curing• low-space equipment• improved surface properties



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TEST RESULTS

<i>Tested on:</i>	PC
<i>Abrasion resistance:</i> <ul style="list-style-type: none">• <i>Crockmeter CM-5, loading weight 9N, blue polishing paper (3M281Q)</i>• <i>Translational motion test, loading weight 14kPa, steel whool 0000</i>	100 double strokes: loss of gloss 9% 50 double strokes: loss of gloss 5% 12 double strokes: few scratches visible no measurable gloss loss
<i>Resistance to acetone, ethanol, petroleum spirit</i>	150 double strokes: no visible change
<i>Cream resistance in compliance with VW TL226</i>	adhesion Gt0, no visible change
<i>Water storage at 60°C, 10 days</i>	adhesion Gt0, no visible change
<i>Condensed water/constant climate at 40°C, 10 days</i>	adhesion Gt0, no visible change

BERLAC AG

Berlac AG – founded in 1928 and headquartered in Switzerland – is a member of the Berlac Group, a globally-active group of companies, which has specialised in the development and manufacture of top-quality solutions for surface coatings and the finishing of PU for various sectors and applications.

As an internationally leading manufacturer of premium-grade special lacquers and effects for decorative niche applications on plastics and genuine metals, Berlac AG supplies primarily to industrial contract coaters, in-house coating tier one/two suppliers as well as to internationally renowned OEMs in the following sectors: automotive, spectacle frames, watches and jewellery, domestic appliances, sanitary fittings, hearing aids, medical technology, telephony, writing implements, cosmetics packaging.