



**BERLAGUARD antibacterial
2comp. PUR clear coat**

**Component A: Art. No. 042.988.100 high gloss
042.988.300 matt**

1. GENERAL DESCRIPTION

1.1 Characteristics

BERLAGUARD antibacterial is a 2K PUR clearcoat, which can be used very well on metallic surfaces, plastic surfaces and also as a clearcoat on BERLAC basecoats and has the following properties:

- antibacterial long-term effect without effect degradation (no silver ion base)
- does not fall under the Biocide Regulation
- good levelling and good filling power on one line
- light-, weather- and UV-resistant
- high chemical resistance
- extremely resistant to abrasion
- excellent adhesion on PVD and metallic substrates
- very good adhesion to various plastics
- very good adhesion to BERLAC basecoats
- fulfils the antimicrobial effect according to JIS L1902 and ISO 22196

1.2 Binder System

polyurethane resin

1.3 Use

suitable for indoor and outdoor use

1.4 Range of Application

protective clear coat, antibacterial

1.5 Delivery

- Shade of colour
- Degree of gloss
- System

colourless

high gloss and matt; mixture 1:1 results in semi gloss!

2component system, air-drying

1.6 Storage

at 20° C, in tightly closed original container (hardener reacts on air humidity)

Shelf life from date of production:

masterbatch	comp. A	042.988.100	at least 12 months
masterbatch	comp. B	042.988.300	at least 12 months
hardener	comp. B	042.900.080	at least 12 months

1.7 Distinctive marks

BERLAGUARD antibacterial 042.988.100/300 differs from BERLAC ABRASION RESIST 2comp. clear lacquer for PVD 042.938.xxx because of its antibacterial properties. The mode of action is based on permanent charge shifting on the surface, through the addition of antibacterial additives, which permanently prevent the colonization of the surfaces by bacteria by means of purely physical mechanisms.

2. PROPERTIES

2.1 Density 20°C (g/cm³)

0.9918

2.2 Solid Content

43.42 %

2.3 Levelling

good

2.4 Mileage Power (theoretical)

23,6 g/m² at 20 µm dry film thickness

**2.5 Drying (20°C)**

dust free dry - 10'
 dry to handle - 1 hour
 through dry - 8 hours
 forced drying - 60' / 60-80°C

Prior to testing, the parts must be conditioned 16 hours at 80°C or 10 days at room temperature to achieve complete curing.

3. OTHER PERFORMANCE DATA**3.1 Resistance to Light**

very good

3.2 Outdoor Properties

very good

3.2 Mode of action/testing?? PeWe

The mode of action is based on permanent charge displacement on the surface, through the addition of antibacterial additives.

4. HANDLING AND APPLICATION DIRECTIONS**4.1 Substrate**

PVD substrates, metal surfaces, plastics and Berlac basecoats

Pretreatment

parts shall be clean, dust-free and grase

It is essential to check the suitability of the paint before series painting.

4.2 Handling Conditions**Thinner**

Dilute with BERLAC thinner:

L05.2650.0-00 for metals, plastics and basecoats

L05.2773.0-00 for metals, PC and PMMA

Viscosity 15 - 17" DIN4.

Spraying

approx. 40-60 % thinner → spraying viscosity 16" DIN4

Mixing Ratio

100 parts per weight	lacquer	042.988.100/300
30 parts per weight	hardener	042.900.080

Pot Life

approx. 3 hours at 20°C

Layer thickness

21 my +/- 3 my

4.3 Recommended Application

BERLAGUARD, antibacterial 042.988.100/300 can be applied directly to PVD-coated substrates, metal substrates, various plastics and BERLAC basecoats without the need for a primer.

4.4 Removal of Coat

BERLEX paint remover 087.004.000

4.5 Cleaning of Clothes and Tools

BERLURAN thinner 005.009.000

5. SAFETY SPECIFICATIONS

Before using the products, it is strongly recommended to read the safety data sheets, according to the Amending Directive II of the Regulation (EC) No 1907/2006 and according to the Regulation (EC) No 453/2010. Detailed information about properties, application parameters are provided on the specific working instructions.

Sissach, 04.05.2021 / MIHI

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