



## Certificate

**2011/617-5**  
**-duplicate-**

### Product

Test of resistance to disinfectants  
by CAPAROL Latex Hygiene

### Client

DAW Benta Romania S.R.L.  
Str. Principala nr. 201  
RO 547525 Sâncraiu de Mureş

### Date of the certificate

16.04.2012

### This certificate contain

5 pages

### Attachment

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### 1. Procedure

On the 20.01.2012 the Dr. Robert-Murjahn-Institute (RMI) was requested by DAW Benta Romania S.R.L. to examine the product CAPAROL Latex Hygiene with respect to various disinfectants.

The RMI received a test bundle in externally flawless state on the 23.01.2012.

This test bundle was made available by the client.

The examination of the sample was performed during 23.01.2012 till 06.03.2012.

### 2. Test of resistance to disinfectants

The test is not accredited to DIN EN ISO 17025.

#### 2.1. Production of the test coating

Using a film drawing device and a doctor blade with a 300 µm gap height, PVC films (430 mm x 280 mm) were coated with CAPAROL Latex Hygiene and dried for 28 days in the standard climate (23 °C / 50 % relative humidity) according to DIN EN 23270.



## 2.2. Disinfectants used

Product	Concentration	Active ingredients
Amocid®	5% solution	Phenols
Chloramine T Trihydrate	2.5% solution	Organ. chlorine compound
Incidur® Spray	Undiluted solution	Alcohols
Buraton® 10F	1% solution	Aldehydes
Microbac® forte	2.5 % solution	Amines

## 2.3. Performing the test

The test simulates the mechanical cleaning of a surface with a sponge cloth.

For this the coated films were cut into 80 mm wide strips.

A test strip was fitted to the scrub test device according to ISO 11998 and moistened with the disinfectant solution. The coating was subjected to 40 test cycles with a cellulose sponge (90 mm x 40 mm) which was also soaked in the disinfectant solution.

The test was carried out with the five disinfectants and with deionised water as a reference test. The disinfectants used were applied in the manufacturer's highest stated recommended dosage.

No cleaning followed the test, i.e. the disinfectant dried out on the surface.

The disinfectants used have been tested by the "Deutschen Gesellschaft für Hygiene und Mikrobiologie (DGHM)" [German Association for Hygiene and Microbiology] for surface disinfection and have been found to be effective.

(Federal Health Gazette - Health Research - Health Protection  
2003: 46 72–95 DOI 10.1007/s00103-002-0524-4)



### 3. Results

#### 3.1. Table of results

The changes to surfaces (stability, structure, colour and gloss) were assessed according to DIN EN ISO 4628-1 Table 3 after 7 days of drying.

Test with:	Result	
	specific value	Intensity of change
Water	0	No change
Amocid®	1	Very slight change
Chloramin T Trihydrate	1	Very slight change
Incidur® Spray	1	Very slight change
Buraton® 10F	1	Very slight change
Microbac® forte	1	Very slight change

If the specific values of 0 or 1 are attained, the coating is classified as resistant to the disinfectant applied.

#### 3.2. Assessment of the intensity of changes according to DIN EN ISO 4628-1

specific value	Intensity of change
0	No change, i.e. no discernible change
1	Very slight, i.e. change just discernible
2	Slight, i.e. clear discernible change
3	Medium, i.e. very clear discernible change
4	Strong, i.e. pronounced change
5	Very strong change



#### 4. Summary of the results

With respect to the disinfectants:

- Amocid®
- Chloramin T Trihydrate
- Incidur® Spray
- Buraton® 10F
- Microbac® forte

CAPAROL Latex Hygiene is to be classified resistant.

This certificate and the results shown are based upon the information, drawings, samples and tests referred herein. A publication in extracts of this certificate is subject to written approval from the Dr. Robert-Murjahn-Institute.

Ober-Ramstadt, 16.04.2012

Dr. Robert-Murjahn-Institut

**Dr. Helge Kramberger**  
Head of analytics and  
Testing of coating materials



**Dipl.-Ing. Dustin Dinse**  
Analytics and testing of coating materials