

Ljubljana, 06.04.2010

TRANSLATION OF THE TEST REPORT

**No. P 310/10-460-2**

Testing of an internal paint  
**SPEKTRA LATEKS POLMAT /**  
**SPEKTRA SUPER VINYL POLMAT:**  
determination of resistance against disinfectants

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**Applicant:** HELIOS, Tovarna barv, lakov in umetnih smol Količevo, d.o.o., Količevo 65,  
1230 Domžale, Slovenia

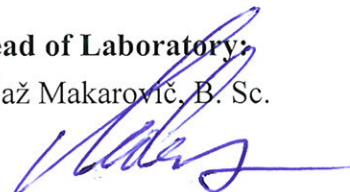
**Order Form:** Order No. 034123/ŠJ from 10.03.2010

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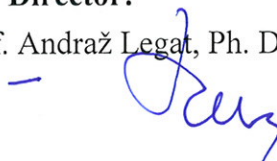
**Task Carrier:**  
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**Director:**  
Assoc. Prof. Andraž Legat, Ph. D.



## INTRODUCTION

In agreement with the applicant internal paint **SPEKTRA LATEKS POLMAT / SPEKTRA SUPER VINYL POLMAT** was tested for resistance against disinfectants.

<b>Applicant</b>	Helios Tovarna barv, lakov in umetnih smol Količevo, d.o.o., Količevo 65, 1230 Domžale, Slovenia
<b>Sample</b>	<b>SPEKTRA LATEKS POLMAT / SPEKTRA SUPER VINYL POLMAT</b>
<b>Internal sample designation</b>	<b>ZAG D9-134/2</b>
<b>Date of sample receipt</b>	19.12.2009
<b>Dates of tests</b>	from 18.01.2010 to 19.03.2010

## COURSE OF TESTS

### A.) Sample preparation

Samples were prepared by applicant. Paint was applied on cement-fibre boards.

### B.) Test procedure

Tests were conducted at normal laboratory condition at 23°C (±2°C) and 50% (±5%) RH. A sample in horizontal position was sprayed by disinfectant. After 1 minute the sample was circularly scrubbed (3 rounds/s, 2 kPa) with a washcloth (Vileda, sponge washcloth, Φ = 15 cm) for 1 minute. The procedure was repeated every 30 minutes. Possible changes of the surface were monitored visually. After 10 cycles the surface was whipped off with wet and than dry cloth. Washcloth was washed with water every 10 cycles. 50 cycles were conducted.

Used disinfectant:

**Hexaquart plus** – 1,5 % (6 % didecyldimethylammonium chloride, 5,5 % lauryldipropylenetriamine, 4,2 % biguanidinium acetate, nonionic surfactants, fillers, anticorrosion agent, fragrances)

**Melspet SF** – 2 % (7,5 % didecyldimethylammonium chloride, 4,5 % glutaral, 3,2 % glyoxal)

**Ekocid** – 1 % (50 % pentapotassium bis(peroxymonosulfate) bis(sulfate))

**Maliseptol** – 50 % 1-propanol, 0,08 % glyoxal, surfactants, fragrances



**Maliseptol rapid** – 50 % 1-propanol, 0,075 % didecyldimethylammonium chloride, fragrances, auxiliary materials

Resistance of samples was also tested against **ethanol** (96 %) and **2-propanol**.

## TEST RESULTS

Results are stated in **Table 1**.

**Table 1:** Results of testing for resistance of internal paint SPEKTRA LATEKS POLMAT / SPEKTRA SUPER VINYL POLMAT against disinfectants.

Disinfectant	Number of cycles	Surface assessment
Hexaquart plus	50	No blistering, no gloss change
Melspet SF	50	No blistering, no gloss change
Ekocid	50	No blistering, no gloss change
Maliseptol	1	No blistering, <b>loss of gloss</b>
Maliseptol rapid	1	No blistering, <b>loss of gloss</b>
Ethanol 96 %	2	No blistering, <b>loss of gloss</b>
2-propanol	1	No blistering, <b>loss of gloss</b>

## CONCLUSION

Internal paint SPEKTRA LATEKS POLMAT / SPEKTRA SUPER VINYL POLMAT **is** resistant to the described course of treatment against disinfectants based on water and containing quarter ammonium salts (didecyldimethylammonium chloride), triamines (laurildipropylentriamine), aldehydes (glyoxal, glutaral aldehyde) and peroxy compounds (pentapotassium bis(peroxymonosulfate) bis(sulfate)).

Internal paint SPEKTRA LATEKS POLMAT / SPEKTRA SUPER VINYL POLMAT **is not** resistant to the described course of treatment against disinfectants based on alcohols (ethanol, 1-propanol, 2-propanol).

Test report prepared by:

Luka Škrlep, B. Sc.




The test results refer only to the test specimens. This report may only be reproduced as a whole.