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Laboratory for Polymers

ZAG
LJUBLJANA

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Ljubljana, 06.04.2010

TRANSLATION OF THE TEST REPORT

No. P 310/10-460-1

Testing of an internal paint

SPEKTRA DOMFLOK LAK POLMAT:
determination of resistance against disinfectants

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

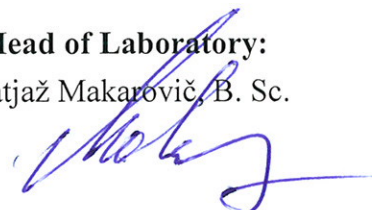
Task Carrier:

Luka Škrlep, B. Sc.



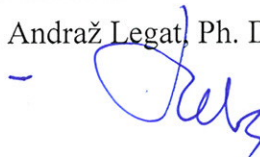
Head of Laboratory:

Matjaž Makarovič, B. Sc.



Director:

Assoc. Prof. Andraž Legat, Ph. D.



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Form. P.S. 12-001-01/2

INTRODUCTION

In agreement with the applicant internal paint **SPEKTRA DOMFLOK LAK POLMAT** was tested for resistance against disinfectants.

Applicant	Helios Tovarna barv, lakov in umetnih smol Količevo, d.o.o., Količevo 65, 1230 Domžale, Slovenia
Sample	SPEKTRA DOMFLOK LAK POLMAT
Internal sample designation	ZAG D9-134/1
Date of sample receipt	19.12.2009
Dates of tests	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 ($\pm 2^\circ\text{C}$) and 50% ($\pm 5\%$) 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, $\Phi = 15$ 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:

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

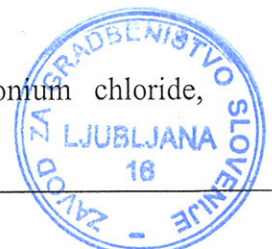
Melspet SF – 2 % (7,5 % didecyldimethylammonium chloride, 4,5 % glutaral, 3,2 % glyoxal)

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

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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 DOMFLOK LAK 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	Blistering, loss of gloss
Maliseptol rapid	1	Blistering, loss of gloss
Ethanol 96 %	2	No blistering, loss of gloss
2-propanol	1	No blistering, loss of gloss

CONCLUSION

Internal paint SPEKTRA DOMFLOK LAK 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, glutaraldehyde) and peroxy compounds (pentapotassium bis(peroxymonosulfate) bis(sulfate)).

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

Test report prepared by:

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