



TECHNICAL SERVICE REPORT Nº B2012-479

THERMOCORK

Navarra

22nd of February 2012

Customer:

Thermocork

Test Laboratory:

Biocides Department Laboratory
Thor Especialidades, S.A.
Pol.Ind. "El Pla"
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Barcelona

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Samples received

Two samples were received, protected with 1% of ACTICIDE® EPW. We have identified the samples as:

Revestimiento ecológico corcho verde
Revestimiento ecológico corcho blanco

Objective

To evaluate the dry-film fungal and algal effectiveness of the formulation.
The test is going to be done with a previous pretreatment in QUV during 250 hours.

THOR Methods used

Thor Test Method 800.2: Dry-Film Fungal Resistance Test

Test samples are applied to panels of a carrier material, e.g. calcium silicate or filter paper, placed on agar plates, inoculated with a mixed fungal suspension and incubated for three weeks.

Fungal growth is assessed visually.

Micro-organisms used:

<i>Aspergillus brasiliensis</i> <i>Penicillium funiculosum</i> <i>Alternaria alternata</i> <i>Cladosporium cladosporoides</i> <i>Ulocladium atrum</i>

Thor Test Method 850.2: Dry-Film Algal Resistance Test

Test samples are applied to panels of a carrier material, e.g. calcium silicate or filter paper, immersed in a mixed algal suspension and incubated for four weeks. Algal growth is assessed by visual examination

Micro-organisms used:

<i>Scenedesmus vacuolatus</i> <i>Stichococcus bacillaris</i>

Conclusions

The results of the test indicate that 1% ACTICIDE® EPW gave adequate protection against moulds and algae after a pretreatment in QUV during 250 hours.

Dry film fungal/algal resistance test (Thor Method 800.2/850.2)

Sample	Fungal Growth Rating after 21 days		Algal Growth Rating after 28 days	
	Replicate 1	Replicate 2	Replicate 1	Replicate 2
Revestimiento ecológico corcho verde	1	1	1	1
Revestimiento ecológico corcho blanco	1	1	0	0

Inoculum concentration Cfu/ml

Moulds: $2,1 \times 10^6$

Algae: $3,3 \times 10^5$

Fungal growth ratings

- 0 No growth on the sample / Halo zone
- (0) No growth on the sample / Without halo zone
- 1 Trace fungal growth on edge of the sample
- 2 Growth from the edge 30 % coverage of growth
- 3 Growth of single colonies (30-50%)
- 4 Sample surface widespread grown (50 up to 75%)
- 5 Sample surface strong or completely grown (75 up to 100%)

Algal growth ratings

- 0 No growth
- 1 Trace growth
- 2 Slight growth
- 3 Moderate growth
- 4 Heavy growth
- 5 Dense growth

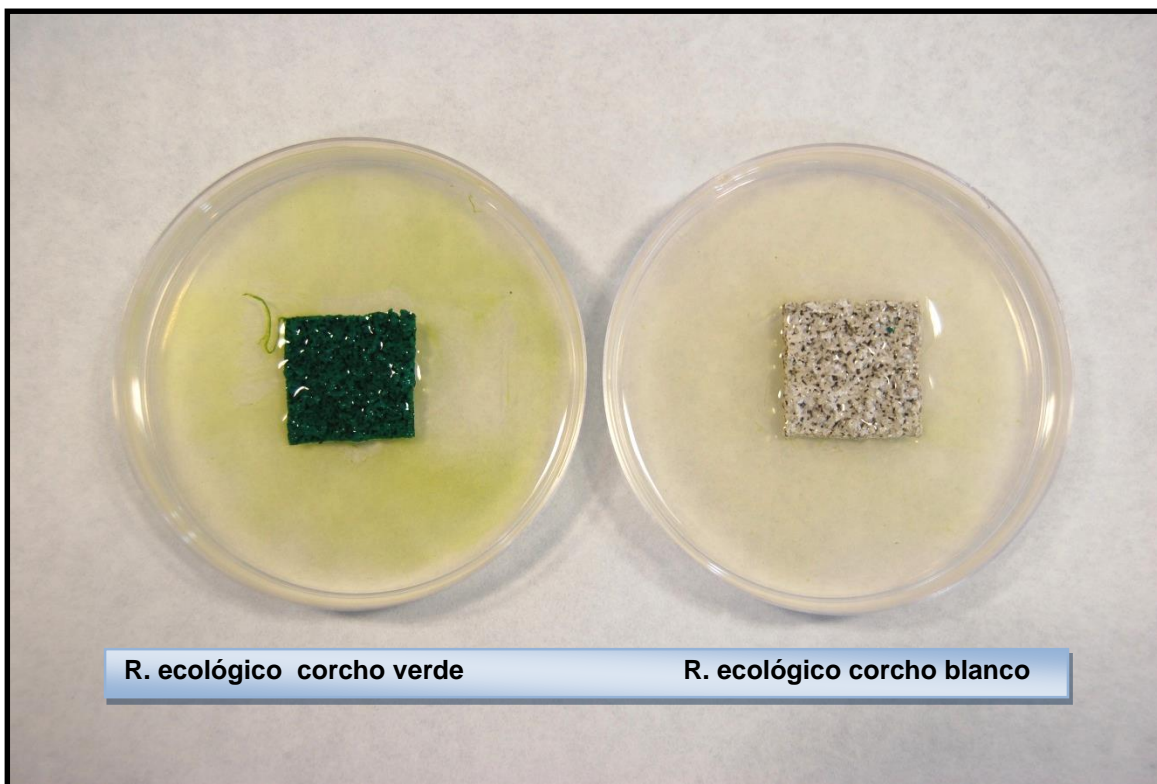
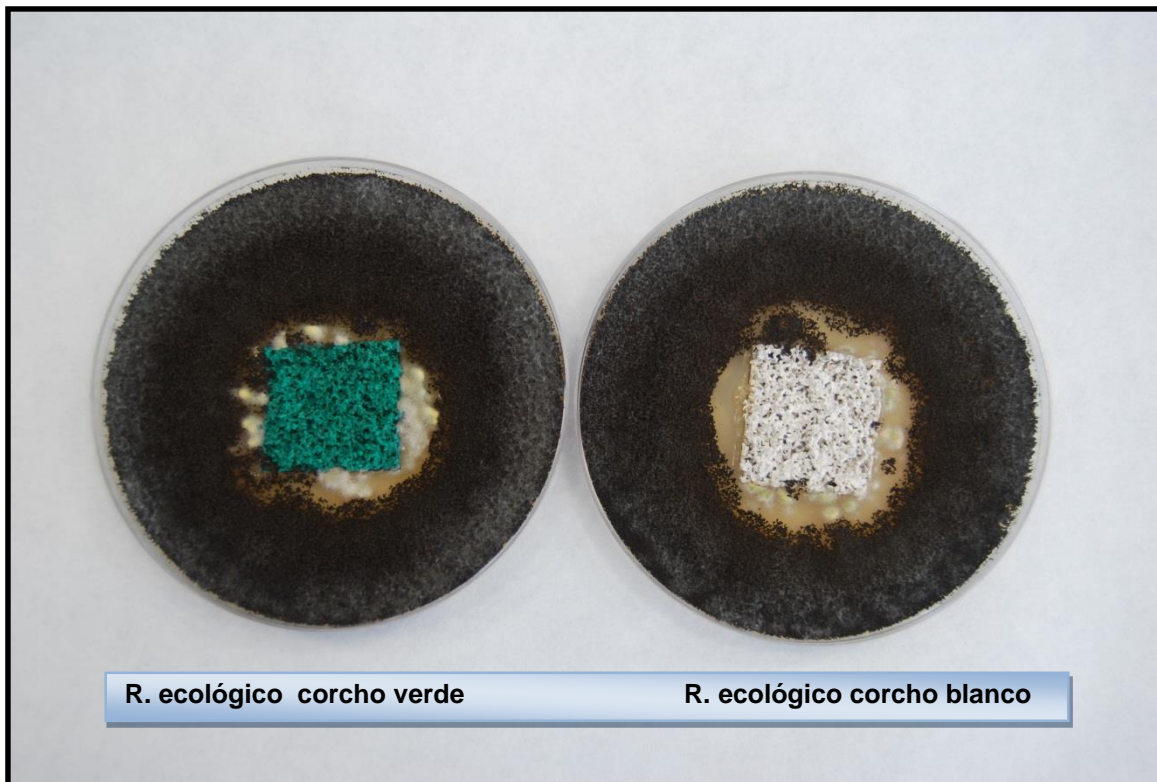
Moulds

<i>Alternaria alternata</i>	DSM	12633
<i>Aspergillus brasiliensis</i>	DSM	12634
<i>Cladosporium cladosporoides</i>	IMI	178517
<i>Penicillium funiculosum</i>	DSM	12637
<i>Ulocladium atrum</i>	IMI	79906

Algae

<i>Stichococcus bacillaris</i>	SAG	379-1a
<i>Scenedesmus vacuolatus</i>	SAG	211-8b

Dry film test results



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Report review:

The work detailed in this report has been carried out according to the Thor Especialidades, S.A. Standard Methods of Test. All results have been checked by the responsible person and reviewed by the Laboratory Manager.

Signed

Date: 22/02/2013

Lorena Aparicio Alejandre
Microbiological Laboratory

Reviewed

Date: 22/02/2013

Vanessa López Beltran
Biocides Lab Manager

Please note that, unless otherwise stated, the conclusions and any recommendations either made or implied, are based on information drawn from examination of the samples identified in this report only. Since these may be influenced by, for example, infection level variations in raw materials, stored component solutions and manufacturing equipment, it is recommended that some appropriate monitoring of microbiological properties be carried out.

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