

Technical leaflet

Resistance of EGGER Eurodekor against disinfectants



Product Description

Eurodekor is the name for wood-based boards that are coated with a decor paper soaked in melamine resin. Besides chipboard, the support material can also be made of MDF, OSB Combiline or lightweight board. These core boards are manufactured according to the requirements of the respective European standards. All Eurodekor boards also meet the requirements of the EN 14322 standard, which defines the requirements for melamine faced boards for interior applications. Eurodekor boards provide a wide range of possible applications for furniture and interior design.

Normative Properties of the Surface

The EN14322 standard imposes specific requirements regarding the surface resistance of melamine faced wood-based materials. This includes testing the surface against various substances for resistance to stains. The test investigates how substances commonly used in daily life affect boards with melamine faced surfaces. These substances are brought into direct contact with the surface for this purpose. The exposure times and conditions are specified for each staining agent. At the end of the respective exposure time, the specimens are washed and examined for residual surface marks.

If the product under test meets rating 3 or above then it is deemed to comply with the specification for stain resistance according to EN 14323. This means that exposure for the specified time period is only permitted to cause a moderate change in the gloss level and/or colour.

Disinfectants

With melamine faced wood-based materials, disinfectants are mainly used to disinfect surfaces.

Various disinfectants are offered by the industry for this application. These vary both in regards to their composition and their effect.

Disinfectants used on surfaces are mainly those that exhibit one of the following active ingredients and/or are based on one of the chemicals listed here:

- Oxidants
- Halogens (chlorine, iodine)
- Alcohols
- Aldehydes
- Phenols
- Ethylene oxide

In addition to the components listed here, the application instructions for the various disinfectants also differ significantly.

Disinfectants and Eurodekor

In general Eurodekor melamine faced wood-based materials are highly resistant against the impact of staining agents. However, the variety of available disinfectants with different compositions, effects and application recommendations makes it impossible to approve their use on Eurodekor. Even chemical-based disinfectants that are used to verify the quality of the surface successfully according to EN 14323 may cause a severe damage when following the manufacturer's directions for use. Many of them are also asking for applying the

disinfectant covering the whole surface to allow a good evaporation. Exposure to high levels of moisture for extended periods may damage the transition from the board face to the edge which can cause swelling along the edges.

Based on the above reasons and examples, we recommend testing the disinfectant on the surface of Eurodekor in all cases. Only this approach guarantees the durability of the material in the desired application. As additional information tested disinfectants are shown in appendix 1.

APPENDIX 1

[24h test]

Manufacturer	Product	Test Conditions	Grade	Result
BODE Chemie GmbH	Dismozon pur VAH und RKI	4% solution	Grade	5
BODE Chemie GmbH	Microbac Forte VAH	concentrated 40 times	Grade	5
BODE Chemie GmbH	Kohrsolin VAH	concentrated 33 times	Grade	4
Cleansept	AF wipes	ready for use	Grade	5
Dr. Hans Rosemann	Trichlorol RKI	5% solution	Grade	5
Dr. Hans Rosemann	Aldesan 2000 RKI	concentrated 10 times	Grade	5
Dr. Hans Rosemann	Lysoformin 2000 RKI	concentrated 13 times	Grade	5
Dr. Hans Rosemann	Lysoformin RKI	concentrated 16 times	Grade	5
Dr. Hans Rosemann	Fugaten	ready for use	Grade	5
Dr. Hans Rosemann	Lysoformin spezial	0,75% solution	Grade	5
Dr. Hans Rosemann	Lysoformin rapid	2% solution	Grade	5
Dr. Schumacher	Ultrasol F	5% solution	Grade	5
Dr. Schumacher	Descosept Pur	ready for use	Grade	5
Dr. Schumacher	Optisal N	1% solution	Grade	5
Dr. Schumacher	Optisept	4% solution	Grade	5
Dr. Schumacher	Perfektan TB VAH	concentrated 25 times	Grade	5
Dr. Schumacher	Cleanisept VAH	concentrated 13 times	Grade	5
Dr. Schumacher	Biguanid Fläche N VAH gl.	concentrate	Grade	5
Dr. Schumacher	Descosept VAH	ready for use	Grade	4
Dr. Schumacher	Descosept PUR	ready for use	Grade	5
Dr. Schumacher	Ultrasol active	1% solution	Grade	5
Kesla Hygiene AG	Wofasept FL VAH	ready for use	Grade	5
Kesla Hygiene AG	Wofasept VAH	concentrated 50 times	Grade	5
Kesla Hygiene AG	Wofasteril RKI ***	concentrated 400 times	Grade	1
Kesla Hygiene AG	Wofasteril RKI ***	5% solution	Grade	4
Sanosil Service GmbH	Sanosil Lösung	ready for use	Grade	4
Schülke & Mayr	Perform VAH und RKI	0,5 solution	Grade	4
Schülke & Mayr	Mikrozid HF Liquid	ready for use	Grade	5
Schülke & Mayr	Terralin Protect	concentrated 50 times	Grade	4
Schülke & Mayr	Terralin protect VAH	0,5% solution	Grade	5
Schülke & Mayr	Mikrozid VAH	ready for use	Grade	5
Schülke & Mayr	Perform VAH und RKI	3% solution	Grade	5
Schülke & Mayr	Pursept FD	7% solution	Grade	5

Manufacturer	Product	Test Conditions	Grade	Result
Schülke & Mayr	Pursept FD	100% solution	Grade	5
Schülke & Mayr	antifect extra	2% solution	Grade	5
Schülke & Mayr	mikrozid PAA wipes	ready for use	Grade	5
Schülke & Mayr	Pursept-A Xpress	ready for use	Grade	5
Schülke & Mayr	Pursept-AF	6% solution	Grade	5
Schülke & Mayr	Acryl Des	ready for use	Grade	5
Tana Chemie GmbH	Apesin rapid VAH	concentrate	Grade	5
Tana Chemie GmbH	Apesin rapid VAH	ready for use	Grade	5
Tana Chemie GmbH	Apesin AP 100 plus	3% solution	Grade	4
Tana Chemie GmbH	Apesin multi QUICK&EASY	ready for use	Grade	5
ECOLAB	Incidin PLUS RKI	8% solution	Grade	5
ECOLAB	Incidin Rapid	2% solution	Grade	5
ECOLAB	Incidin Pro	4% solution	Grade	5
ECOLAB	Sani Cloth active	ready for use	Grade	5
ECOLAB	Incidin Active	3% solution	Grade	5
ECOLAB	Incidin OxyFoam S (rot)	ready for use	Grade	5
ECOLAB	Incidin Foam	ready for use	Grade	5
ECOLAB	Incidin Liquid	ready for use	Grade	5
Antiseptica	Descogen Liquid VAH	3% solution	Grade	5
Antiseptica	Biguacid-S VAH	2% solution	Grade	4
Antiseptica	Descocid-N	2% solution	Grade	5
Antiseptica	Descogen-F (granulate)	1,5% solution	Grade	5
Antiseptica	Biguacid Liquid	ready for use	Grade	5
Antiseptica	Kombi-Flächen Desinfektion	4% solution	Grade	5
Dr. Nüsken	Nüscosept OF VAH	1% solution	Grade	5
Dr. Nüsken	Nüscosept Clin VAH	1% solution	Grade	5
Dr. Nüsken	Nüscosept RKI	0,5% solution	Grade	5
Dr. Nüsken	Nüscosept Forte	2% solution	Grade	5
Dr. Nüsken	Nüscosept Rapid	ready for use	Grade	5
Dr. Nüsken	Nüscosept Foam	ready for use	Grade	5
Henkel	SIDOL Küchenkraft	ready for use	Grade	5
Dreiturm	Hexawol	7,5% solution	Grade	5
Dreiturm	Hexawol fix	ready for use	Grade	5
B. Braun	Hexaquart plus lemon	2% solution	Grade	5
B. Braun	Hexaquart S mit Fichtennadelduft	3% solution	Grade	5
B. Braun	Hexaquart plus	2% solution	Grade	5
B. Braun	Meliseptol Foam pure	spray bottle	Grade	5
B. Braun	Meliseptol rapid	ready for use	Grade	5
B. Braun	Softa-Man (Softalind) Visco Rub	ready for use	Grade	5
B. Braun	Softa-Man (Softalind) pure	ready for use	Grade	5
B. Braun	Softasept N gefärbt / ungefärbt	ready for use	Grade	5

Manufacturer	Product	Test Conditions	Grade	Result
B. Braun	Meliseptol	ready for use	Grade	5
B. Braun	Promanum pure	ready for use	Grade	5
B. Braun	Hexaquart forte	ready for use	Grade	5
Hagleitner Hygiene	hygienic3000	7,5% solution	Grade	5
Hagleitner Hygiene	hygienicPLUS	ready for use	Grade	5
Hagleitner Hygiene	hygienicDES 2GO	0,5% solution	Grade	5
Hagleitner Hygiene	wcDISINFECT	ready for use	Grade	5
Hagleitner Hygiene	hygienicDES Perfect	2% solution	Grade	5
Hagleitner Hygiene	hygienicDES FORTE	ready for use	Grade	5
Suma	Suma BAC D10	1% solution	Grade	5
Suma	Suma MULTI D2	1% solution	Grade	5

Assessment table to test for resistance to stains [EN 14322:]

Grade	Rating
5	no visible change
4	slight change in shine and / or colour is only visible at certain angles
3	moderate change of gloss level and/or colour
2	significant change of gloss level and/or colour
1	surface damage and /or blistering

APPENDIX 2

Substances to test for resistance to stains [EN14322:2004 5.6]

Test substance	Test conditions
Group 1 Acetone – other organic solvents Toothpaste Hand cream Urine Alcoholic beverages Natural fruit and vegetable juices Lemonade and fruit beverages Meat products and sausage Animal and plant fats and oils Water Yeast suspension in water Sodium chloride solution (NaCl), saturated Mustard Bases, soap solutions, cleaning solutions 23 % dodecylbenzenesulfonate 10 % alkylaryl polyglycoether 67 % water, spot or paint remover based on organic solvents Citric acid (10 % solution)	Application of the test substance at room temperature. Contact time: 16 h

Test substance	Test conditions
Group 2 Coffee, black (120g coffee per litre of water) Black tea (9g tea per litre of water) Milk (all varieties)	Application of the test substance at approx. 80 °C. Contact time: 16 h
Cola beverages Wine vinegar Alkaline cleaning agents, diluted to 10 % concentration with water Hydrogen peroxide, 3 % Ammonia (10 % solution of the off-the-shelf concentration) Nail polish Nail polish remover Lipstick Watercolours Indelible inks Ballpoint ink	Application of the test substance at room temperature. Contact time: 16 h

Notice of provisional status:

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