

	<b>EU Ecolabel (Indoor &amp; Outdoor) /Nordic Swan - Indoor Paints &amp; Varnishes (2008)</b>	<b>Austrian Ecolabel - Paints, Varnishes and wood sealant lacquers UZ01 (2010)</b>	<b>Austrian Ecolabel - Wall paints UZ17 (2010)</b>	<b>German Blue Angel – Low emission paints RAL UZ12a (July 2010) – Varnishes &amp; Glazes</b>	<b>German Blue Angel – Low emission paints for interior walls RAL UZ102 (2010)</b>	<b>Japanese Ecomark 126 – Paint Version 2.3 (2011)</b>	<b>US Green seal – Paint &amp; Coatings (2008) (GS-11)</b>	<b>US Green seal – Stains &amp; Finishes (2010) (GS-47)</b>
VOC limits	Limits depend on product (g/l including water and colourants)  Interior Matt (walls/ceiling) (Gloss < 25@60 °) 15 Interior glossy (walls/ceiling) (Gloss > 25@60 °) 60 Interior trim and cladding paints for wood and metal including undercoats 90 Interior trim varnishes and wood-stains, including opaque woodstains 75 Interior minimum build woodstains	8% to 5% (white opaque coatings) and a maximum limit of 3% SVOC (inclusive of impurities)	Wall paints: max of 500ppm and no more than 200 ppm SVOCs	Paints allocated to a group according to % solid mass. Each group  Group I < 20 % - 2 mass percent  Group II > 20 % to < 30 % - 8 mass percent  Group III > 30 % - 10 mass percent.  Further restrictions within each group: for compounds with a higher boiling Point. In addition, the individual compounds are	Max 700ppm	No VOC components added in excess of:  Solvent based paints – 200g/l  Water based paints: Indoor – 1g/l Outdoor – 10g/l	Grams per liter of product excluding colourants & water .  Flat Topcoat 50 Non-Flat Topcoat 100 Primer or Undercoat 100 Floor Paint 100 Anti Corrosive Coating 250 Reflective Wall Coating 50 Reflective Roof Coating 100  Grams per liter of product with colourants added at the point-of-sale:  Flat Topcoat 100	Grams per liter of product.  Varnishes 350, Conjugated Oil Varnish 450, Lacquer 550, Clear Brushing Lacquer 680, Shellacs/Pigmented 550, Finishes Shellacs/Clear 730, Stains 250, Sealer 200, Waterproof Sealers 250, Low Solids Coating 120.

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	<p>75 Primers 15 Binding Primers 15 1 Pack performance coatings 100 Two-pack reactive performance coatings for specific end use such as floors 100 Decorative effect coatings 90 Coatings for exterior walls of mineral substrate 40 Exterior trim and cladding paints for wood and metal including undercoats 90 Exterior trim varnishes and wood-stains,</p>			<p>toxicologically evaluated by means of a LCI value and this is also restricted</p>			<p>Non-Flat Topcoat 150 Primer or Undercoat 150 Floor Paint 150 Anti Corrosive Coating 300 Reflective Wall Coating 100 Reflective Roof Coating 150</p>	

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	including opaque woodstains 90 Exterior minimum build woodstains 75 Primers (for exterior use) 15 Binding Primers (for exterior use) 15 1 Pack performance coatings 100 Two-pack reactive performance coatings for specific end use such as floors 100							
<b>Heavy metal compounds (cobalt, cadmium,</b>	<b>None including barium (excluding barium sulphate), selenium,</b>	<b>None except max of 50ppm and 10 ppm for arsenic &amp;</b>	<b>None except max of 50ppm and 10 ppm for arsenic &amp;</b>	<b>Lead, chromium and cadmium IV cannot be added – impurities</b>	<b>Lead, chromium and cadmium IV cannot be added – impurities</b>	<b>Cannot add: Cadmium 4, Mercury, Hexavalent</b>	<b>No heavy metal compounds – max 0.01%. Carbon black</b>	<b>No heavy metal compounds – max 0.01%. Carbon black</b>

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chromium IV, lead, arsenic, mercury and other toxic heavy metal compounds)	antimony. Cobalt salts used as a siccative in alkyd paints and cobalt in pigments can be used up to a concentration not exceeding 0,05 % (m/m). Impurities of these metals up to 0,01 % (m/m) allowed.	cadmium. Mercury can exceed 2ppm if justified. Cobalt max of 0.1% and Manganese at 0.5%.	cadmium. Mercury can exceed 2ppm if justified.	allowed up to 100 ppm (200 ppm for lead)	allowed up to 100 ppm (200 ppm for lead)	chromium, Lead, Arsenic	excepted. Cobalt and manganese may be allowed no more than 0.06% as active metal.	excepted. Cobalt and manganese may be allowed no more than 0.06% as active metal.
Titanium Dioxide	Allowed – control of emissions and discharges of waste in production – Sox, Sulphate and Chloride wastes. Ecolabel is significantly less	Allowed - but must be produced in accordance with EC-Directive 92/112	Allowed - but must be produced in accordance with EC-Directive 92/112	Allowed - but must be produced in accordance with EC-Directive 92/112	Allowed - but must be produced in accordance with EC-Directive 92/112		Allowed	Allowed
White Pigment	lower or equal to 38 g per m <sup>2</sup> of dry film, with 98 % opacity							
Reactive solvents	Halogenated solvents allowed	No 2 butoxyethyl acetate,	No diethylene glycol methyl					No halogenated solvents

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(Added)	with restrictions	diethylene glycol methyl ether, ethylene glycol, triethylene glycol	ether, ethylene glycol, triethylene glycol					
Plasticizers (Added)	DNOP (di-n-octyl phthalate), DINP (di-isononyl phthalate), DIDP (di-isodecyl phthalate) are not permitted in the product	No phthalic acid derived plasticisers allowed	No phthalic acid derived plasticisers allowed	No phthalate derivatives or organophosphates	The total softener content must not exceed 1g per litre.	Not allowed: Butyl benzyl phthalate, Diethyl phthalate Di-n-butyl phthalate, Di-2-ethylhexyl phthalate	No phthalates	No phthalates
APEOs	None allowed	No alkylphenol ethoxylates	No alkylphenol ethoxylates	None allowed	None allowed	No Alkylphenol, Nonyl phenol, 4-octylphenol	None allowed	None allowed
Aromatic hydrocarbons (Added)	Cannot be added before or during tinting; but ingredients containing VAH may be added up to 0,1 % (m/m) of final product	Up to 100 ppm impurities are allowed	Up to 100 ppm impurities are allowed			Solvent based paints: up to 10 g/l Water based – up to 1g/l (except non emulsions – up to 10g/l)	No more than 0.5% by weight	No more than 0.5% by weight
Hazardous Chemical substances	The product and substances not classified as very	None classified as carcinogenic, mutagenic, toxic	None classified as carcinogenic, mutagenic, toxic	No substances classified as teratogenic,	No substances classified as teratogenic,		No Carcinogens, Mutagens, Reproductive	No Carcinogens, Mutagens, Reproductive

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(Added)	toxic, toxic, dangerous to the environment, carcinogenic, toxic for reproduction, harmful, corrosive, mutagenic or irritant (only where this is caused by the presence of ingredients labelled with R43). Methyl Ethyl Ketoxime may be used in alkyd paints up to a limit of 0,3 % (m/m).	to reproduction or hazardous to the environment	to reproduction or hazardous to the environment	carcinogenic, mutagenic, toxic to reproduction or hazardous to the environment	carcinogenic, mutagenic, toxic to reproduction or hazardous to the environment		Toxins, Hazardous Air Pollutants or Ozone-depleting Chemicals	Toxins Hazardous Air Pollutants or Ozone-depleting Chemicals
Formaldehyde (Added)	Free formaldehydes shall not be added. Formaldehyde donators may only be added so that the final formaldehyde content will not exceed 0,001 %	10 ppm in the product. Except can be up to 100ppm if the air emission in a test chamber is a max of 0.25 ppm during processing &	10 ppm in the product. Except can be up to 100ppm if the air emission in a test chamber is a max of 0.25 ppm during processing &	10 ppm in the product. Except can be up to 100ppm if the air emission in a test chamber is a max of 0.25 ppm during processing &	10 ppm in the product. Except can be up to 100ppm if the air emission in a test chamber is a max of 0.25 ppm during processing &	No added formaldehyde. Emissions to air less than 5µg/hr/m2 except for Coating Powder, or paints authorized by	No Formaldehyde donors	No Formaldehyde donors

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	(m/m) of product.	drying and a max of 0.05ppm after 24 hours after application.	drying and a max of 0.05ppm after 24 hours after application	drying and a max of 0.05ppm after 24 hours after application	drying and a max of 0.05ppm after 24 hours after application	the Govt.		
Preservatives Added		Used only for in-can preservation and only Government certified substances with specific limit values between 15 and 200 ppm.	Used only for in-can preservation and only Government certified substances with specific limit values between 15 and 200 ppm.	No micro biocides unless on German approved list and only for in-can preservation	No micro biocides unless on German approved list and only for in-can preservation	Up to 0.5% of product weight		
Water endangering classification					No higher than category 1 of the water-endangering classification scheme (Water Endangering Category 1, slightly water endangering)			
Packaging Added		No use of halogenated	No use of halogenated			Containers shall be returnable.	A minimum of 20% recovered	A minimum of 25% recovered

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		organic based plastics, re-sealable. No sprays.	organic based plastics, re-sealable. No sprays.			Containers shall be lead-free metal cans of recyclable design. Containers are collected and recycled.  Doesn't apply to certain categories  No aerosols	material content, except if manufacturer take-back program for recycling in place Heavy metals and phthalates can't be used unless part of recovered material. No aerosols.	material content, except if manufacturer take-back program for recycling in place Heavy metals, phthalates, Bisphenol A, and chlorinated compounds can't be used unless part of recovered material. No aerosols.
Disposal Added		Take back and recovery/recycling system	Take back and recovery/recycling system				Encourage recycling	Encourage recycling
Fitness for use	Various standard tests are stipulated	All claims are tested according to instructions. Standard tests for adhesion, ductility, coverage and dry	All claims are tested according to instructions. Standard tests for adhesion, ductility, coverage and dry	All claims are tested according to instructions. Standard tests used.	All claims are tested according to instructions. Standard tests used.	Various tests according to standards specified dependent on prospective use	Various tests according to use, in accordance with specified standards:	Various tests according to use, in accordance with specified standards:



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		film thickness etc.	film thickness etc.					
Nano materials Added		Special attention using Swiss categorisation of risks	Special attention using Swiss categorisation of risks					
Production Added		Waste management systems required in production facility	Waste management systems required in production facility					
End User Information added	Instructions on use etc.	Expiry date and %age solvents	Expiry date and %age solvents			Instructions on use etc.	Instructions on dosage and use online and in print format	Instructions on dosage and use online and in print format
Residual Monomers				Limited to max 5% of binder				
Anti-fouling ingredients						Triphenyl tins and tributyl tins not allowed	Triphenyl tins and tributyl tins not allowed	Triphenyl tins and tributyl tins not allowed
Irritant components				No components labelled Xi and C				
Other	Isothiazolinone compounds not allowed above 0.05% m/m					No Tetradecane, Acetaldehyde  No	No 1,2-dichlorobenzene	No 1,2-dichlorobenzene

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	Perfluorinated alkyl sulfonates (PFAS), perfluorinated carboxylic acids (PFCA) including Perfluorooctanoic Acid (PFOA) and related substances listed in the OECD 'Preliminary lists of PFOS, PFAS, PFOA, PFCA, related compounds and chemicals that may degrade to PFCA (as revised in 2007)' are not permitted in the product					chlorofluorocarbon (CFC5s), specified halogenated hydrocarbons, other CFCs, carbon tetrachloride, trichloroethane and alternatives for chlorofluorocarbon.		