

*Status: Point in time view as at 18/03/2016.*

*Changes to legislation: There are outstanding changes not yet made to Commission Decision of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes (notified under document C(2014) 3429) (Text with EEA relevance) (2014/312/EU). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details)*

## ANNEX

### EU ECOLABEL CRITERIA AND ASSESSMENT AND VERIFICATION REQUIREMENTS

Criteria for awarding the EU Ecolabel to paints and varnishes:

1. White pigment and wet scrub resistance
2. Titanium dioxide
3. Efficiency in use
  - (a) Spreading rate
  - (b) Resistance to water
  - (c) Adhesion
  - (d) Abrasion
  - (e) Weathering
  - (f) Water vapour permeability
  - (g) Liquid water permeability
  - (h) Fungal resistance
  - (i) Crack bridging
  - (j) Alkali resistance
  - (k) Corrosion resistance
4. Volatile and Semi-volatile Organic Compounds (VOCs, SVOCs)
5. Restriction of hazardous substances and mixtures
  - (a) Overall restrictions that apply to hazard classifications and risk phrases
  - (b) Restrictions that apply to Substances of Very High Concern
  - (c) Restrictions that apply to specific hazardous substances
6. Consumer information
7. Information appearing on the EU Ecolabel

The Ecolabel criteria reflect the best environmental performing products on the market of paints and varnishes. High quality and performance standards of the paint are required to ensure the longevity of the product and contribute that way to the significant reduction of the paints' overall life cycle impacts. Moreover, the criteria aim at minimizing the use of volatile and semi-volatile organic substances in the paint formulation.

Whilst the use of chemical products and release of pollutants is part of the production process, a product that bears the EU Ecolabel guarantees the consumer that the use of such substances has been limited to the extent technically possible without prejudice to its fitness for use. Moreover, the final paint or varnish product may not be classified as being an acute toxin or hazardous to the environment under European legislation on the labelling of products.

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The criteria exclude whenever possible or restrict to a minimum the concentration (required for providing specific functions and properties) of a number of substances identified as hazardous to human health and the environment that may be used in the formulation of paints and varnishes. Only where a substance is required to meet consumer performance expectations or mandated requirements for the product (for instance paint preservation), and where there are no applied and tested available alternatives, derogation for such a substance to be used in the Ecolabel is granted.

Derogations are evaluated on the basis of the precautionary principle and scientific and technical evidence, especially if safer products are available on the market.

Testing of the final product for the presence of restricted hazardous substances may be requested in order to provide a high level of assurance to consumers.

Where appropriate, strict conditions are also imposed on the handling of substances in manufacturing processes for paints and varnishes to avoid workforce exposure. The verification of compliance with the criteria is formulated in a way that provides a high level of assurance to consumers, reflects the practical potential for applicants to obtain information from the supply chain and excludes the potential for 'free riding' by applicants.

#### *Assessment and verification*

##### (a) Requirements

The specific assessment and verification requirements are indicated within each criterion.

Where the applicant is required to provide declarations, documentation, analyses, test reports, or other evidence to show compliance with the criteria, these may originate from the applicant and/or his supplier(s) and/or their supplier(s), as appropriate.

In the case of changes such as in supplier, the paint formulation or an extension of a product range that results in a change in how the paint or varnish complies with one or more criteria (as relevant) then the licenseholder shall, in advance of any change, submit information to the relevant Competent Body demonstrating the products ongoing compliance as specified in the relevant criteria.

Where appropriate, test methods other than those indicated for each criterion may be used if these are described in the user manual of the Ecolabel criteria application and the competent body assessing the application accepts their equivalence.

Competent bodies shall preferentially recognise tests which are accredited according to ISO 17025 and verifications performed by bodies which are accredited under the EN 45011 standard or an equivalent international standard.

Where appropriate, competent bodies may require supporting documentation and may carry out independent verifications.

##### (b) Measurement thresholds

Unless otherwise indicated compliance with the Ecolabel criteria is required for intentionally added substances and mixtures, as well as for by-products and impurities from raw materials, the concentration of which equals or exceeds 0,010 % by weight of final formulation.

##### (c) The exact formulation of the product, including the function and the physical form of all ingredients identified within the criteria, as well as any additional functional ingredients, and their ingoing concentration shall be provided to the competent body.

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The chemical name, CAS number and CLP classification according to Regulation (EC) No 1272/2008 shall be provided for each ingredient. All ingredients identified within the criteria, as well as any additional functional ingredients and known impurities, that are present at concentrations in the product of greater than 0,010 % shall be reported unless a lower concentration is required in order to comply with a derogation requirement.

Where ingredients are referred to in the criteria, this includes substances and preparations or mixtures. The definitions of ‘substances’ and ‘mixtures’ are given in Article 3 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council<sup>(1)</sup> (‘the REACH Regulation’).

Safety data sheets and/or CAS numbers and CLP classifications for each ingredient shall be submitted to the competent body in accordance with the REACH Regulation.

- (d) For all criteria, apart from Criterion 4 Volatile and Semi-volatile Organic Compounds (VOCs, SVOCs), the limits shall apply to the paint or varnish in its packaging. In line with Directive 2004/42/EC the VOC limits relate to the ready to use product and so the maximum VOC content shall be measured or calculated including any recommended additions such as colorants and/or thinners. For this calculation or measurement, data supplied by the raw material suppliers regarding solids content, VOC content and product density will be required. The above is also applicable in the measurement or calculation of SVOCs. Competent bodies may request testing for SVOC's in order to validate calculations.

### **Criterion 1. White pigment and Wet Scrub Resistance**

#### *1(a) Minimum requirement for white pigment content*

Indoor wall and ceiling paints for which Class 1 and 2 wet scrub resistance claims are made shall have a white pigment content (white inorganic pigments with a refractive index higher than 1,8) per m<sup>2</sup> of dry film equal to or lower than that described in Table 1, with 98 % opacity. For tinting systems this requirement only applies to the base paint.

TABLE 1

#### **Relationship between wet scrub resistance and TiO<sub>2</sub> content for indoor paints**

<b>Wet scrub resistance</b>	<b>Indoor limit (g/m<sup>2</sup>)</b>
Class 1	40
Class 2	36

For all other paints, including limed paints, silicate paints, primers, anti-rust paints and facade paints, the white pigment content (white inorganic pigments with a refractive index higher than 1,8) shall not exceed 36 g/m<sup>2</sup> for indoor products and 38 g/m<sup>2</sup> for outdoor products. In the case of paints for both indoor and outdoor use the more stringent limit shall apply.

In case the above mentioned products fall under the exemption indicated in part (b) then the white pigment content (white inorganic pigments with a refractive index higher than 1,8) shall not exceed 25 g/m<sup>2</sup> of dry film, with 98 % opacity.

#### *1(b) Minimum requirement for Wet Scrub Resistance (for indoor paints only)*

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All indoor wall and ceiling paints (finishes) shall achieve class 1 or class 2 in wet scrub resistance (WSR) according to EN 13300 and EN ISO 11998. This requirement only applies to tinting bases (base paints).

Exempted from this requirement are indoor wall and ceiling paints with a white pigment content (white inorganic pigments with a refractive index higher than 1,8) that is equal or lower to 25 g/m<sup>2</sup> of dry film, with 98 % opacity.

Only WSR class 1 and 2 ecolabelled paints may claim wet scrub resistance on the label or other marketing documentation.

Assessment and verification: the requirements of both 1(a) and 1(b) shall be fulfilled. the applicant shall provide documentation showing that the content of white pigments is compliant with this criterion.

The applicant shall provide a test report according to EN 13300 using the method EN ISO 11998 (Test for cleanability and scrub resistance). For ceiling paints and indoor wall paints the labelling for the packaging, including the accompanying text, shall be provided as evidence regarding claims of wet scrub resistance.

### **Criterion 2. Titanium Dioxide pigment**

If the product contains more than 3,0 % w/w of titanium dioxide, the emissions and discharges of wastes from the production of any titanium dioxide pigment used shall not exceed the following<sup>(2)</sup>:

For the sulphate process:

- SO<sub>x</sub> calculated as SO<sub>2</sub> : 7,0 kg/tonne TiO<sub>2</sub> pigment
- Sulphate waste: 500 kg/tonne TiO<sub>2</sub> pigment

For the chloride process:

- If natural rutile ore is used, 103 kg chloride waste/tonne TiO<sub>2</sub> pigment
- If synthetic rutile ore is used: 179 kg chloride waste/tonne TiO<sub>2</sub> pigment
- If slag ore is used: 329 kg chloride waste/tonne TiO<sub>2</sub> pigment

If more than one type of ore is used, the values will apply in proportion to the quantity of the individual ore types used.

*Note:*

SO<sub>x</sub> emissions only apply to the sulphate process.

The Waste Framework Directive 2008/98/EC of the European Parliament and of the Council<sup>(3)</sup>, Article 3 shall be used for the definition of waste. If the TiO<sub>2</sub> producer can satisfy Article 5 (by-product production) of the Waste Framework Directive for its solid wastes then, the wastes shall be exempted.

Assessment and verification: the applicant shall submit supporting documentation showing compliance by the titanium dioxide producer manufacturing the raw material for the paint product either in the form of a declaration of non-use or a declaration supported by data indicating that the respective levels of process emissions and waste discharges of wastes are met.

### **Criterion 3. Efficiency in use**

In order to demonstrate the efficiency in use of paints and varnishes the following tests per type of paint and/or varnish, as indicated in Table 2, shall be undertaken:

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TABLE 2

**Performance requirements for different kind of paints and varnishes**

Criteria	Paints and Varnishes (with their subcategories identified according to the Directive 2004/42/EC)							
	Indoor paint(a, b)	Outdoor paint(c)	Trim and cladding(d)	Thick decorative coating indoor and outdoor(e)	Varnish and woodstain(f)	One pack performance and floor covering paint(i)	Primer(g)	Undercoat and primer(h)
[ <sup>F1</sup> 3(a)]	8 m <sup>2</sup> /L Spreading rate (only for white and light coloured paints, including the white base paints used in tinting systems)) ISO 6504/1. Not applicable to varnishes, lacures, transparent adhesion primers or any other transparent coatings.]	4 m <sup>2</sup> /L (elastomeric paint) 6 m <sup>2</sup> /L (masonry paint)	Outdoor products 6 m <sup>2</sup> /L Indoor products 8 m <sup>2</sup> /L	1 m <sup>2</sup> /L	—	Outdoor products 6 m <sup>2</sup> /L Indoor products 8 m <sup>2</sup> /L	[ <sup>F2</sup> 6 m <sup>2</sup> /L (without having specific properties) 8 m <sup>2</sup> /L (with opacity)]	[ <sup>F2</sup> 6 m <sup>2</sup> /L (without having specific properties) 8 m <sup>2</sup> /L (with opacity)]
3(b)	— Resistance to water —	—	—	—	Resistant to water	Resistant to water	—	—

**a** Only required where marketing claims are made about the paints

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	ISO 2812-3							
3(c)	Adhesion EN 24624	—	—	—	—	Score 2	1,5 MPa (masonry paint)	1,5 MPa (masonry paint)
3(d)	Abrasion EN ISO 7784-2	—	—	—	—	70 mg weight loss	—	—
3(e)	Weathering EN 11507/ EN 927-6	1 000 h —	1 000 h (outdoor)	1 000 h (outdoor)	1 000 h (outdoor)	1 000 h (outdoor)	—	—
3(f)	Water vapour permeability <sup>a</sup> EN ISO 7783	Class II or better —	—	Class II or better (outdoor)	—	—	—	—
3(g)	Liquid water permeability <sup>a</sup> — EN 1062-3	Where claims are made Class III All other products Class II or better	—	Class II or better (outdoor)	—	—	—	—
3(h)	Fungal resistance <sup>a</sup> EN 15457	Class 1 or lower (masonry or wood paints)	Class 0 (outdoor wood products)	Class 1 or lower (outdoor)	—	—	—	—
3(h)	Algal resistance EN 15458 <sup>a</sup>	Class 1 or lower (masonry or wood paints)	Class 0 (outdoor wood products)	Class 1 or lower (outdoor)	—	—	—	—
3(i)	Crack bridging <sup>a</sup> EN 1062-7	A1 (elastomeric paint only)	—	—	—	—	—	—

<sup>a</sup> Only required where marketing claims are made about the paints

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3(j)	— Alkali resistance ISO 2812-4	Masonry paint	—	—	—	—	Outdoor for masonry	Outdoor for masonry
3(k)	— Corrosion resistance <sup>a</sup>	Anti- rust paint	Anti- rust paint	—	—	Anti- rust paint	Anti- rust paint	Anti-rust paint
EN ISO 12944-2 and 12944-6, ISO 9227, ISO 4628-2 and 4628-3		Blistering: ≥ size 3/ density 3 Rusting: ≥ Ri2	Blistering: ≥ size 3/ density 3 Rusting: ≥ Ri2			Blistering: ≥ size 3/ density 3 Rusting: ≥ Ri2	Blistering: ≥ size 3/ density 3 Rusting: ≥ Ri2	Blistering: ≥ size 3/ density 3 Rusting: ≥ Ri2

**a** Only required where marketing claims are made about the paints

#### Textual Amendments

- F1** Substituted by [Commission Decision \(EU\) 2015/886 of 8 June 2015 amending Decision 2014/312/EU establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes \(notified under document C\(2015\) 3782\) \(Text with EEA relevance\).](#)
- F2** Substituted by [Commission Decision \(EU\) 2016/397 of 16 March 2016 amending Decision 2014/312/EU establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes \(notified under document C\(2016\) 1510\) \(Text with EEA relevance\).](#)

#### 3(a) Spreading rate

Spreading rate requirement shall apply to white and light coloured paint products. For paints that are available in more colours the spreading rate shall apply to the lightest colour.

White paints and light-coloured paints (including finishes and intermediates) shall have a spreading rate (at a hiding power of 98 %) of at least 8 m<sup>2</sup> per litre of product for indoor paints and 6 m<sup>2</sup> for outdoor paints. Products marketed for both — indoor and outdoor shall have a spreading rate (at a hiding power of 98 %) of at least 8 m<sup>2</sup> per litre.

For tinting systems, this criterion applies only to the white base (the base containing the most TiO<sub>2</sub>). In cases where the white base is unable to achieve this requirement, the criterion shall be met after tinting the white base to produce the standard colour RAL 9010.

For paints that are a part of a tinting system, the applicant must advise the end-user on the product packaging and POS which shade or primer/undercoat (if possible bearing the Community Ecolabel) should be used as a basecoat before applying the darker shade.

[<sup>F2</sup>Opaque primers and undercoats shall have a spreading rate of at least 8 m<sup>2</sup> per litre of product. Opaque primers with specific blocking/sealing, penetrating/binding properties and primers with special adhesion properties shall have a spreading rate of at least 6 m<sup>2</sup> per litre of product.]

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Thick decorative coatings (paints that are specially designed to give a three-dimensional decorative effect and are therefore characterised by a very thick coat) shall alternatively have a spreading rate of 1 m<sup>2</sup> per kg of product.

Opaque elastomeric paints shall have a spreading rate of at least 4 m<sup>2</sup> per litre of product.

This requirement does not apply to varnishes, lasures, transparent adhesion primers or any other transparent coatings.

Assessment and verification: the applicant shall provide a test report using the method ISO 6504/1 (Paints and varnishes — determination of hiding power — Part 1: Kubelka-Munk method for white and light-coloured paints) or 6504/3 (Part 3: determination of contrast ratio (opacity) of light-coloured paints at a fixed spreading rate), or for paints specially designed to give a three-dimensional decorative effect and characterised by a very thick coat the method NF T 30 073. For bases used to produce tinted products not evaluated according to the abovementioned requirements, the applicant shall produce evidence of how the end-user will be advised to use a primer and/or grey (or other relevant shade) of undercoat before application of the product.

### 3(b) *Resistance to water*

All varnishes, floor coatings and floor paints shall have resistance to water, as determined by ISO 2812-3 such that after 24 hours' exposure and 16 hours' recovery no change of gloss or of colour occurs.

Assessment and verification: the applicant shall provide a test report using the method ISO 2812-3.

### 3(c) *Adhesion*

Pigmented masonry primers for exterior uses shall score a pass in the EN 24624 (ISO 4624) pull-off test where the cohesive strength of the substrate is less than the adhesive strength of the paint, otherwise the adhesion of the paint must be in excess of a pass value of 1,5 MPa.

Floor coatings, floor paints, floor undercoats, interior masonry primers, metal and wood undercoats shall score 2 or less in the EN 2409 test for adhesion.

Transparent primers are not included in this requirement.

The applicant shall evaluate the primer and/or finish alone or both applied together. When testing the finish alone this shall be considered the worst case scenario concerning adhesion.

Assessment and verification: the applicant shall provide a test report using the method EN ISO 2409 or EN 24624 (ISO 4624) as applicable.

### 3(d) *Abrasion*

Floor coatings and floor paints shall have an abrasion resistance not exceeding 70 mg weight loss after 1000 test cycles with a 1000 g load and a CS10 wheel according to EN ISO 7784-2.

Assessment and verification: the applicant shall provide a test report showing compliance with this criterion using the method EN ISO 7784-2.

### 3(e) *Weathering (for outdoor paints and varnishes)*

Masonry finish paints and wood and metal finishes including varnishes shall be exposed to artificial weathering in apparatus including fluorescent UV lamps and condensation or water



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spray according to ISO 11507. They shall be exposed to test conditions for 1000 hours. Test conditions are: UVA 4 h/60 °C + humidity 4 h/50 °C.

Alternatively, outdoor wood finishes and wood varnishes shall be exposed to weathering for 1000 hours in the QUV accelerated weathering apparatus with cyclic exposure with UV(A) radiation and spraying according to EN 927-6.

According to ISO 7724 3, the colour change of samples exposed to weathering shall not be greater than  $\Delta E^* = 4$ . It is not applicable to varnishes and bases.

Decrease of gloss for gloss paints and varnishes exposed to weathering shall not be greater than 30 % of its initial value and shall be measured using ISO 2813. This requirement is not applicable to mid sheen and matt-finishes<sup>(4)</sup> which have an initial gloss value less than 60 % at 60° angle of incidence.

Chalking shall be tested using method EN ISO 4628-6 on masonry finish coats and wood and metal finishes (where applicable) after the samples have been exposed to weathering. Coatings shall achieve a score of 1,5 or better (0,5 or 1,0) in this test. In the standard there are illustrated references.

The following parameters shall also be evaluated on masonry finish coats and wood and metal finishes after the samples have been exposed to weathering:

Flaking according to ISO 4628-5; flake density 2 or less, flake size 2 or less

Cracking according to ISO 4628-4; crack quantity 2 or less, crack size 3 or less

Blistering according to ISO 4628-2; blister density 3 or less, blister size 3 or less.

Tests should be performed on the tinting base.

Assessment and verification: the applicant shall provide test reports using either ISO 11507 according to the specified parameters or EN 927-6, or both. The applicant shall provide test reports using EN ISO 4628-2, 4, 5, 6 and a test report in conformance ISO 7724-3 where applicable.

### 3(f) *Water vapour permeability*

Where claims are made that exterior masonry and concrete paints are breathable the paint shall be classified according to EN1062-1 as class II (medium vapour permeability) or better according to the test method EN ISO 7783.

Due to the large number of potential tinting colours, this criterion will be restricted to testing of the base paint.

Assessment and verification: the applicant shall provide a test report using methodology EN ISO 7783 and classification according EN1062-1.

### 3(g) *Liquid water permeability*

Where claims are made that exterior masonry and concrete paints are water repellent or elastomeric, the coating shall be classified according to EN1062-1 as class III (low liquid permeability) according to method EN 1062-3.

Due to the large number of potential tinting colours, this criterion will be restricted to the testing of the base paint.

All other masonry paints shall be classified according to EN1062-1 as class II (medium liquid permeability) or better according to the test method EN 1062-3.

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Assessment and verification: the applicant shall provide a test report using methodology EN 1062-3 and classification according EN1062-1.

3(h) *Fungal and algal resistance*

Where claims are made that exterior masonry finish and wood paints have anti-fungal and algal properties, and in accordance with PT7 of the Biocide Regulation (EU) No 528/2012 of the European Parliament and of the Council<sup>(6)</sup>, the following requirements shall be determined using EN 15457 and EN 15458.

Masonry paints shall have a score of class 1 or lower (1 or 0) for fungal resistance, (i.e. less than 10 % fungal coverage) and a score of class 1 or lower for algal resistance.

Wood paints shall have a score of 0 for fungal resistance and 0 for algal resistance.

Due to the large number of possible tinting colours, this criterion will be restricted to the testing of the base paint.

Assessment and verification: the applicant shall provide a test report using the methodology in EN 15457 and EN 15458.

3(i) *Crack bridging*

Where claims are made that masonry (or concrete) paint has elastomeric properties, the paint shall be at least classified as A1 at 23 °C according to EN 1062.

Due to the large number of potential tinting colours, this criterion will be restricted to the testing of the base paint.

Assessment and verification: the applicant shall provide a test report using methodology DIN EN 1062-7.

3(j) *Alkali resistance*

Masonry paints and primers shall show no noticeable damage when the coating is spotted for 24 hours with 10 % NaOH solution according to method ISO 2812-4. The evaluation is done after 24 hours drying-recovery.

Assessment and verification: the applicant shall provide a test report using methodology ISO 2812-4.

3(k) *Corrosion resistance*

Simulated corrosion stresses shall be applied to a substrate for the purpose of rating according to the appropriate atmospheric corrosivity category or categories in EN ISO 12944-2 and the accompanying test procedures specified in EN ISO 12944-6. Anti-rust paints for steel substrates shall be tested after 240 h salt spray following ISO 9227. The results shall be rated using ISO 4628-2 for blistering and ISO 4628-3 for rusting. The paint shall achieve result not worse than size 3 and density 3 in blistering and not worse than Ri2 in rusting test.

Assessment and verification: the applicant shall provide testing and rating reports to confirm compliance with this criterion.

**Criterion 4. Content of Volatile and Semi-volatile Organic Compounds (VOCs, SVOCs)**

The maximum content of Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs) shall not exceed the limits given in Table 3.

The content of VOCs and SVOCs shall be determined for the ready to use product and shall include any recommended additions prior to application such as colourants and/or thinners.

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Products with a VOC content that is in accordance with the limits in Table 3 may display the text ‘reduced VOC content’ and the VOC content in g/l next to the Ecolabel.

TABLE 3

**VOC and SVOC content limits**

Product description (with subcategory denotation according to Directive 2004/42/EC)	VOC limits(g/l including water)	SVOC limits(g/l including water)
a. Interior matt walls and ceilings (Gloss < 25@60°)	10	30 <sup>a</sup> /40 <sup>b</sup>
b. Interior glossy walls and ceilings (Gloss > 25@60°)	40	30 <sup>a</sup> /40 <sup>b</sup>
c. Exterior walls of mineral substrate	25	40
d. Interior/Exterior trim and cladding paints for wood and metal	80	50 <sup>a</sup> /60 <sup>b</sup>
e. Interior trim varnishes and woodstains, including opaque woodstains	65	30
e. Exterior trim varnishes and woodstains, including opaque woodstains	75	60
f. Interior and Exterior minimal build woodstains	50	30 <sup>a</sup> /40 <sup>b</sup>
g. Primers	15	30 <sup>a</sup> /40 <sup>b</sup>
h. Binding primers	15	30 <sup>a</sup> /40 <sup>b</sup>
a	Indoor white paints and varnishes	
b	Indoor tinted paints/outdoor paints and varnishes	

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i.	One-pack performance coatings	80	50 <sup>a</sup> /60 <sup>b</sup>
j.	Two-pack reactive performance coatings for specific end use such as floors	80	50 <sup>a</sup> /60 <sup>b</sup>
l.	Decorative effect coatings	80	50 <sup>a</sup> /60 <sup>b</sup>
	Anti-rust paints	80	60
a	Indoor white paints and varnishes		
b	Indoor tinted paints/outdoor paints and varnishes		

The VOC content shall be determined either by calculation based on the ingredients and raw materials or by using the methods given in ISO 11890-2 or, alternatively for products with a VOC content of less than 1.0 g/l, the methods given in ISO 17895. The SVOC content shall be determined using the method given in ISO 11890-2. [<sup>F1</sup>The test shall be carried out using the analytical system as identified in the Criteria User Manual.] In the case of products used both indoors and outdoors the strictest SVOC limit value for indoor paints shall prevail.

[<sup>F3</sup>]

#### Textual Amendments

**F3** Deleted by [Commission Decision \(EU\) 2015/886 of 8 June 2015 amending Decision 2014/312/EU establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes \(notified under document C\(2015\) 3782\) \(Text with EEA relevance\).](#)

Assessment and verification: the applicant shall provide for the VOC content of the ready to use product either a test report using the methods given in ISO 11890-2 or ISO 17895 that demonstrates compliance or a declaration of compliance supported by calculations based on the paint ingredients and raw materials.

The applicant shall provide for the SVOC content of the ready to use product either a test report using the method given in ISO 11890-2 or a declaration of compliance supported by calculations based on the paint ingredients and raw materials. [<sup>F1</sup>The test shall be carried out with reference to the modifications to ISO 11890-2 provided in the Criteria User Manual.] At the request of a Competent Body applicants may be required to validate calculations using the specified test method.

#### Criterion 5. Restriction of hazardous substances and mixtures

The final product shall not contain hazardous substances and mixtures in accordance with the rules set out in the following sub-criteria which apply to:

- Hazard classifications and risk phrases
- Substances of Very High Concern

*Status: Point in time view as at 18/03/2016.*

*Changes to legislation: There are outstanding changes not yet made to Commission Decision of 28 May 2014 establishing the ecological criteria for the award of the EU Ecolabel for indoor and outdoor paints and varnishes (notified under document C(2014) 3429) (Text with EEA relevance) (2014/312/EU). Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details)*

— Specific other listed substances

Applicants are required to evidence that the final product formulation complies with the overall assessment and verification requirements together with any additional requirements contained within the Appendix.

5(a) Overall restrictions to hazard classifications and risk phrases

The final product formulation, including all intentionally added ingredients present at a concentration of greater than 0,010 %, shall not, unless expressly derogated in the Appendix, contain substances or mixtures classified as toxic, hazardous to the environment, respiratory or skin sensitisers, or carcinogenic, mutagenic or toxic for reproduction in accordance with Regulation (EC) No 1272/2008 or Council Directive 67/548/EC<sup>(6)</sup> and as interpreted according to the hazard statements and risk phrases listed in Table 5 of this criteria.

TABLE 5

**Restricted hazard classifications and their categorisation**

<b>Acute toxicity</b>	
<b>Category 1 and 2</b>	<b>Category 3</b>
H300 Fatal if swallowed (R28)	H301 Toxic if swallowed (R25)
H310 Fatal in contact with skin (R27)	H311 Toxic in contact with skin (R24)
H330 Fatal if inhaled (R23/26)	H331 Toxic if inhaled (R23)
H304 May be fatal if swallowed and enters airways (R65)	EUH070 Toxic by eye contact (R39/41)

  

<b>Specific target organ toxicity</b>	
<b>Category 1</b>	<b>Category 2</b>
H370 Causes damage to organs (R39/23, R39/24, R39/25, R39/26, R39/27, R39/28)	H371 May cause damage to organs (R68/20, R68/21, R68/22)
H372 Causes damage to organs (R48/25, R48/24, R48/23)	H373 May cause damage to organs (R48/20, R48/21, R48/22)

  

<b>Respiratory and skin sensitisation</b>	
<b>Category 1A</b>	<b>Category 1B</b>
H317: May cause allergic skin reaction (R43)	H317: May cause allergic skin reaction (R43)
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled (R42)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled (R42)

  

<b>Carcinogenic, mutagenic or toxic for reproduction</b>	
<b>Category 1A and 1B</b>	<b>Category 2</b>
H340 May cause genetic defects (R46)	H341 Suspected of causing genetic defects (R68)
H350 May cause cancer (R45)	H351 Suspected of causing cancer (R40)

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H350i May cause cancer by inhalation (R49)	
H360F May damage fertility (R60)	H361f Suspected of damaging fertility (R62)
H360D May damage the unborn child (R61)	H361d Suspected of damaging the unborn child (R63)
H360FD May damage fertility. May damage the unborn child (R60, R60/61)	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child (R62/63)
H360Fd May damage fertility. Suspected of damaging the unborn child (R60/63)	H362 May cause harm to breast fed children (R64)
H360Df May damage the unborn child. Suspected of damaging fertility (R61/62)	

#### **Hazardous to the aquatic environment**

<b>Category 1 and 2</b>	<b>Category 3 and 4</b>
H400 Very toxic to aquatic life (R50)	H412 Harmful to aquatic life with long-lasting effects (R52/53)
H410 Very toxic to aquatic life with long-lasting effects (R50/53)	H413 May cause long-lasting effects to aquatic life (R53)
H411 Toxic to aquatic life with long-lasting effects (R51/53)	

#### **Hazardous to the ozone layer**

EUH059 Hazardous to the ozone layer (R59)	
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The most recent classification rules adopted by the Union shall take precedence over the listed hazard classifications and risk phrases. In accordance with Article 15 of Regulation (EC) No 1272/2008 applicants shall therefore ensure that classifications are based on the most recent rules on the classification, labelling and packaging of substances and mixtures.

Applicants are required to calculate the hazard classification of the final paint product in order to demonstrate compliance. This shall be in accordance with the methodologies for the classification of mixtures contained in Regulation (EC) No 1272/2008 and all amending legislation. Equivalence between mixture classifications according to the Dangerous Substances Directive 67/548/EEC (referred to as DSD) and those made according to Regulation (EC) No 1272/2008 (the CLP Regulation) can be found in Table 6.

The final product shall not be classified and labelled as being acutely toxic, a specific target organ toxicant, a respiratory or skin sensitiser, or carcinogenic, mutagenic or toxic for reproduction hazardous to the environment, in accordance with Regulation (EC) No 1272/2008 or Directive 67/548/EEC.

TABLE 6

#### **Final product classification: CLP versus DSD equivalence**

<b>CLP Mixture classification</b>	<b>DSD equivalent</b>
Acutely toxic	T or T+

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Specific target organ toxicant	T, T+ or Xn
A respiratory or skin sensitiser	—
A carcinogen, mutagen or reproductive toxicant	Carcinogen, Mutagen or Reproductive toxicant categories 1-3
Hazardous to the environment	N (excluding R53 and R52/53)

#### 5(a)(i) Derogations applying to substance groups

[<sup>F1</sup>For the purpose of this product group, derogations have been granted for defined groups of substances that may be contained within the final product. These derogations stipulate the hazard classifications that are derogated for each specific substance group and the associated derogation conditions and concentration limits that apply. The derogations are set out in the Appendix:]

1. Preservatives added to colourants, binders and the final product
  - (a) In-can preservatives
  - (b) Tinting machine preservatives
  - (c) Dry film preservatives
  - (d) Preservative stabilisers
2. Drying and anti-skinning agents
  - (a) Drying agents
  - (b) Anti-skinning agents
3. Corrosion inhibitors
  - (a) Corrosion inhibitors
  - (b) Verdigris prevention
4. Surfactants
  - (a) General purpose surfactants
  - (b) Alkylphenolethoxylates (APEOs)
  - (c) Perfluorinated surfactants
5. Miscellaneous functional substances with general application
  - (a) Silicon resin emulsion in white paints, colourant and tinting bases
  - (b) Metals and their compounds
  - (c) Mineral raw materials including fillers
  - (d) Neutralising agents
  - (e) Optical brighteners
  - (f) Pigments

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6. Miscellaneous functional substances with specialist applications
  - (a) UV protectors and stabilisers
  - (b) Plasticisers
7. Residual substances that may be present in the final product
  - (a) Formaldehyde
  - (b) Solvents
  - (c) Unreacted monomers
  - (d) Volatile Aromatic Compounds and halogenated compounds

5(a)(ii) *Derogation conditions applying to production sites*

Additional conditions relating to production of paints and varnishes shall apply in the case of derogations for acute toxins or specific target organ toxins. In this case applicants shall submit evidence that they have met the following requirements:

- Substances to which an acute toxic or specific target organ toxins classification applies shall demonstrate compliance with relevant European indicative Occupational Exposure Limit Values (OELV's) or Member State OELV's for the substance(s), with the strictest applying;
- Where there is no reference OELV then the applicant shall demonstrate how health and safety procedures for the handling of the ingoing substance(s) at production sites for the final ecolabelled paint product minimise exposure;
- Substances to which a classification applies as an aerosol or vapour shall demonstrate that workers are not exposed in this form;
- Substances to which the classification applies to in their dry form shall demonstrate that workers cannot come into contact with the substance in this form during manufacturing.

Assessment and verification: the applicant shall demonstrate compliance with this criterion by providing a declaration of the classification and/or non-classification for:

- The final paint or varnish product based on the methodologies for the classification of mixtures contained in Regulation (EC) No 1272/2008 and all amending legislation
- <sup>[F1]</sup>Paint or varnish formula ingredients that fall within the groups of substances listed below:
  - (1) Preservatives added to colorants, binders and the final product
    - (a) In-can preservatives,
    - (b) Tinting machine preservatives,
    - (c) Dry film preservatives,
    - (d) Preservative stabilisers,
  - (2) Drying and anti-skinning agents,
    - (a) Drying agents,
    - (b) Anti-skinning agents,
  - (3) Corrosion inhibitors



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- (a) Corrosion inhibitors,
- (b) Verdigris prevention,
- (4) Surfactants
  - (a) General purpose surfactants,
  - (b) Alkylphenolethoxylates (APEOs),
  - (c) Perfluorinated surfactants
- (5) Miscellaneous functional substances with general application
  - (a) Silicon resin emulsion in white paints, colorants and tinting bases,
  - (b) Metals and their compounds,
  - (c) Mineral raw materials including fillers,
  - (d) Neutralising agents
  - (e) Optical brighteners,
  - (f) Pigments,
- (6) Miscellaneous functional substances with specialist applications
  - (a) UV protectors and stabilisers,
  - (b) Plasticisers
- (7) Residual substances that may be present in the final product
  - (a) Formaldehyde,
  - (b) Solvents,
  - (c) Unreacted monomers,
  - (d) Volatile Aromatic Compounds and halogenated compounds
- (8) Substances in binders and polymer dispersions,
  - (a) Binders and cross linking agents,
  - (b) Reaction products and residues

and that are present at concentrations of more than 0,010 %.]

This declaration shall be based on information collected according to the requirements in the Appendix.

Active ingredients to which specific concentration limits may apply under Regulation (EC) No 1272/2008 and which may fall below the cut-off value of 0,010 % shall also be identified.

The following technical information shall be provided to support the declaration of the classification or non-classification of ingredients:

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- (i) For substances that have not been registered under the REACH Regulation or which do not yet have a harmonised CLP classification: Information meeting the requirements listed in Annex VII to the REACH Regulation;
- (ii) For substances that have been registered under the REACH Regulation and which do not meet the requirements for CLP classification: Information based on the REACH registration dossier confirming the non-classified status of the substance;
- (iii) For substances that have a harmonised classification or are self-classified: safety data sheets where available. If these are not available or the substance is self-classified then information shall be provided relevant to the substances hazard classification according to Annex II to the REACH Regulation;
- (iv) In the case of mixtures: Safety data sheets where available. If these are not available then calculation of the mixture classification shall be provided according to the rules under Regulation (EC) No 1272/2008 together with information relevant to the mixtures hazard classification according to Annex II to the REACH Regulation;

Substances and mixtures shall be characterised in accordance with sections 10, 11 and 12 of Annex II to the REACH Regulation (Requirements for the Compilation of Safety Data Sheets). This shall include information on the physical form and state of the ingredients and shall include identification of manufactured nanomaterial ingredients for which 50 % or more of the particles in the number size distribution have one or more external dimensions in the size range 1 nm-100 nm.

The applicant shall also identify substances and mixtures used in the paint formulation which fall under the specific requirements for derogation as set out in the Appendix. For each derogated substance or mixture supporting information shall be provided showing how the derogation requirements have been met.

#### 5(b) *Restrictions that apply to Substances of Very High Concern*

In accordance with Article 6(7) of Regulation (EC) No 66/2010 the final product and any ingredients or raw materials, shall not, unless specifically derogated, contain substances that:

- Meet the criteria in Article 57 of the REACH Regulation;
- Have been identified according to the procedure described in Article 59(1) of the REACH Regulation which establishes the Candidate List for Substances of Very High Concern.

No derogation shall be given concerning substances that meet one or both of these conditions, and which are present in a paint or varnish product at concentrations higher than 0.10 % (weight by weight).

Assessment and verification: the applicant shall provide a declaration of compliance with this criterion, supported by declarations of compliance signed by their suppliers. Applicants shall demonstrate that they have carried out a screening of ingoing substances against the current Candidate List for Substances of Very High Concern and the criteria in Article 57 of the REACH Regulation.

#### 5(c) *Restrictions that apply to specific hazardous substances*

The final product shall not contain the hazardous substances that are specifically identified in the Appendix at or above the specified concentration limits. The restrictions on substances in the Appendix apply to the following paint and varnish ingredients and residues:

- (i) Dry film preservatives

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- (ii) Tinting machine preservatives
- (iii) In-can preservatives
- (iv) Preservative stabilisers
- (v) Alkylphenolethoxylates (APEOs) surfactants
- (vi) Perfluorinated surfactants
- (vii) Metals and their compounds
- (viii) Pigments
- (ix) Plasticisers
- (x) Free formaldehyde

Assessment and verification: verification and testing requirements are as specified in the Appendix for each substance and as relevant to specific forms of paint and varnish.

#### **Criterion 6. Consumer information**

- 6(a) The following texts shall appear on or be attached to the packaging:
  - ‘Minimise paint wastage by estimating how much paint you will need’
  - ‘Recover unused paint for re-use’.
  - ‘Reuse of paint can effectively minimise the products' life cycle environmental impact’
- 6(b) The following general information and advice shall be provided on or be attached to the packaging:
  - How to estimate the amount of paint needed prior to purchase in order to minimise paint wastage and a recommended amount as a guideline (e.g. for 1 m<sup>2</sup> of wall x litres of paint is needed).
  - How to deal with the ‘unused paint’ together with, where available, a web-link or contact details from which the consumer can find more detailed information.
- 6(c) The following advice and recommendations on how to handle the paint shall be provided on or be attached to the packaging:
  - Safety measures for the user. This shall include basic recommendation on personal protective equipment that should be worn. It shall also include additional measures that should be taken when using spray equipment.
  - The use of cleaning equipment and appropriate waste management (in order to limit water and soil pollution). For example, text advising that unused paint requires specialist handling for safe environmental disposal and therefore it should not be thrown away with household or commercial waste (e.g. ‘Do not put residual paint down the kitchen sink or toilet, or into a waste bin’).
  - Storage of the paint in appropriate conditions (before and after opening), including, where appropriate, safety advice.

Assessment and verification: the applicant shall declare that the product complies with the requirement and provide the competent body with the artwork or samples of the user information and/or a link to a manufacturer's website containing this information as part of the application. The recommended amount of paint given as a guideline shall be provided.

#### **Criterion 7. Information appearing on the EU Ecolabel**

The optional label with text box shall contain, where relevant, the following texts:

- Minimised content of hazardous substances

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- Reduced content of volatile organic compounds (VOCs): x g/l
- Good performance for indoor use (*where indoor criteria have been met*) or
- Good performance for outdoor use (*where outdoor criteria have been met*) or
- Good performance for both indoor and outdoor use (*where both indoor and outdoor criteria have been met*)

The guidelines for the use of the optional label with text box can be found in the ‘Guidelines for use of the Ecolabel logo’ on the website:

[http://ec.europa.eu/environment/ecolabel/documents/logo\\_guidelines.pdf](http://ec.europa.eu/environment/ecolabel/documents/logo_guidelines.pdf)

Assessment and verification: the applicant shall provide a sample of the product label or an artwork of the packaging where the EU Ecolabel is placed, together with a declaration of compliance with this criterion.

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## Appendix

### HAZARDOUS SUBSTANCE RESTRICTION AND DEROGATION LIST

Substance group	Scope of restriction and/or derogation	Concentration limits (where applicable)	Assessment and verification
<b>1. Preservatives added to colourants, binders and the final product</b>			
(i)	<p>[<sup>F2</sup>Rules relating to the approval status of preservatives The paint formulation shall only contain active substances (within the meaning of Article 3(1)(c) of Regulation (EU) No 528/2012) that meet the requirements of 1a, 1b and 1c (as applicable) and are approved in accordance with Article 9(2) of Regulation (EU) No 528/2012 for use in product-type 6 in the case of 1a and 1b or product-type 7 in the case of 1c, or are included in Annex I to that Regulation. Furthermore, a risk assessment for professional and consumer (non-professional) use shall have been provided in the Assessment Report. Applicants should consult the most current approved active substance list of the EU<sup>a</sup> and Annex I to that Regulation. Paint formulations may contain preservatives for which a dossier has been submitted and which are under examination pending a decision on approval in the interim period up until the adoption of a positive decision to approve the active substance or to include it in Annex I to that Regulation.]</p>		
(ii)	<p>Permitted sum totals of in-can and dry film preservatives in the ready to use product In-can and dry film preservatives may be used in indoor and outdoor products according to the sum total concentrations detailed in the following table.</p>		

#### SUM TOTAL PRESERVATIVES PERMITTED IN PAINT AND VARNISH PRODUCTS

Preservation type	Indoor products	Outdoor products
In-can preservatives	0,060 %	0,060 %
Dry film preservatives	Not permitted	0,30 %
Derogated exceptions:		
(i) Paints for use in high humidity areas	0,10 %	n/a
(ii) IPBC combinations for outdoor protection	n/a	0,65 %
Sum total preservatives	0,060 %	0,360 %

<sup>a</sup> [<sup>F2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances>.]

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	With derogated exceptions (i) or (ii) for dry film preservation	0,160 %	0,710 %	
(iii)	Permitted sum totals of isothiazolinone substances and compounds in the ready to use product The sum total of isothiazolinone compounds in any paint or varnish product shall not exceed 0,050 % (500 ppm) with the exception of outdoor wood paints and varnishes which shall not exceed 0,20 %. The following preservatives are derogated for use subject to specific limits on their contribution to the sum total of isothiazolinone compounds in the final ready to use product. 2-methyl-2H-isothiazol-3-one: 0,0200 % 1,2-Benzisothiazol-2(2H)-one: 0,0500 % 2-Octyl-2H-Isothiazol-3-one: 0,0500 % with the exception of outdoor wood paints and varnishes in which it may be used at higher concentrations 5-chloro-2-methyl-4-isothiazolin-3-one/2- methyl-4-isothiazolin-3-one: 0,0015 %			
[ <sup>F2</sup> (a)	In-can preservatives <i>Applicability:</i> All products unless specified otherwise	In-can preservatives classified with the following derogated hazard classifications may be used in ecolabelled products: <i>Derogated classifications:</i> H331 (R23), H400 (R50), H410 (R50/53), H411 (R51/53), H412 (R52/53), H317 (R43) In-can preservatives classified with these derogated classifications shall also meet the following derogation conditions: — The sum total concentration shall not exceed 0,060 % w/w — Substances classified with H400 (R50) and/or H410 (R50/53)	<i>In-can preservatives Sum total in the final product:</i> 0,060 % w/w	<i>Verification:</i> Declaration by the applicant and their binder supplier supported by CAS numbers and classifications for the active substance in the final product and its binder. This shall include calculation by the applicant of the concentration of the active substance in the final product. All manufactured active substances for which 50 % or more of the particles in the number size distribution have one or more external dimensions in the size range 1 nm-100 nm shall be identified.
<b>a</b>	[ <sup>F2</sup> ECHA, Biocidal active substances — list of approved active substances, <a href="http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.">http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.</a> ]			

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	<p>shall be non-bioaccumulative. Non-bioaccumulative substances shall have a Log Kow <math>\leq 3,2</math> or a Bioconcentration Factor (BCF) <math>\leq 100</math>.</p> <p>— For those substances that are approved for use or are included in Annex I to Regulation (EU) No 528/2012 evidence shall be provided that the approval conditions are respected for the paint product.</p> <p>— Where preservatives that are formaldehyde donors are used then formaldehyde content and emissions from the final product must meet the requirements in substance restriction 7(a)</p>	
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<sup>a</sup> [<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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	Specific concentration limits applies to the following preservatives:	Concentration limit	
	(i) Zinc pyrithione	0,050 %	
	(ii) N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	0,050 %	
(b)	Tinting (colourant) machine preservatives	The derogated hazard classifications and the derogation conditions listed under 1(a) shall apply also to preservatives used to protect colour tints whilst stored in machines prior to mixing with base paints. Preservatives added to protect tints that will be dispensed from machines shall not exceed a sum total of 0,20 % w/w. The following preservatives are subject to specific maximum concentration limits contributing to the sum total of preservatives in the colourant:	<p><i>Sum total preservatives in the colourant:</i> 0,20 % w/w</p> <p><i>Verification:</i> Declaration by the applicant and/or their tint supplier supported by CAS numbers and classifications for the active substance in the final product and its binder. This shall include calculation of the concentration of the active substance in the final tint product. All manufactured active substances for which 50 % or more of the particles in the number size distribution have one or more external dimensions in the size range 1 nm-100 nm shall be identified.</p>
	(i) 3-iodo-2-propynyl butylcarbamate (IPBC)	0,10 %	
	(ii) Zinc pyrithione	0,050 %	

<sup>a</sup> [<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]



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	(iii)	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	0,050 %]	
[ <sup>F2</sup> (c) Dry film preservatives <i>Applicability:</i> Outdoor paints, indoor paints for specific applications		Dry film preservatives and their stabilisers classified with the following derogated hazard classifications may be used in all outdoor products and only specific indoor products: <i>Derogated classifications:</i> H400 (R50), H410 (R50/53), H411 (R51/53), H412 (R52/53), H317 (R43) Dry film preservatives classified with these derogated classifications must also meet the following derogation conditions: — The sum total concentration shall not exceed 0,10 % w/w or 0,30 % w/w (as relevant). — Substances classified with H400 (R50) and/or H410 (R50/53) shall be non-bioaccumulative. Non-	<i>Dry film preservatives</i> <i>Sum total in the final product:</i>  Indoor paints intended for use in areas with high humidity, including kitchens and bathrooms 0,10 % w/w All outdoor paint applications 0,30 % w/w	<i>Verification:</i> Declaration by the applicant and their binder supplier supported by CAS numbers and classifications for the active substances in the final product and its binder. This shall include calculation by the applicant of the concentration of the active substances in the final product. All manufactured active substances for which 50 % or more of the particles in the number size distribution have one or more external dimensions in the size range 1 nm-100 nm shall be identified.

<sup>a</sup> [<sup>F2</sup>ECHEA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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	<p>bioaccumulative substances shall have a Log Kow <math>\leq 3,2</math> or a Bioconcentration Factor (BCF) <math>\leq 100</math>.</p> <p>— For those substances that are approved for use or are included in Annex I to Regulation (EU) No 528/2012 evidence shall be provided that the approval conditions are respected for the paint product.</p> <p>A higher sum total and a derogation from the requirements in criterion 5a which shall allow for the final product to become classified as hazardous for the aquatic environment (Chronic Category 3) and to carry the hazard statement H412 applies to the use of the following dry film preservative for the specified applications only:</p>	
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<sup>a</sup> [<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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		3-iodo-2-propynyl butylcarbamate (IPBC) combinations Outdoor paints and varnishes	<i>Outdoor paints sum total for IPBC combinations:</i> 0,650 %	
		Specific concentration limits applies to the following preservative:		
		Zinc pyrithione	0,050 %]	
(d)	Preservative stabiliser	Zinc oxide is derogated for use as a stabiliser for dry film preservative combinations that require zinc pyrithione or 1,2 Benzisothiazol-3(2H)-one (BIT).	0,050 %	Verification: Declaration by the applicant and their raw material suppliers.

## 2. Drying and anti-skinning agents

(a)	Driers Applicability: All paints products unless specified otherwise.	Derogated classifications: H301 (R24), H317 (R43), H373 (H48/20-22), H412 (R52/53), H413 (R53) Cobalt driers in alkyd paints, which are additionally classified with H400 (R50) and H410, are derogated for white and light coloured paints only up to the following concentration limit:	Sum total drier content 0,10 % w/w Cobalt drier content limit 0,050 %	Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.
(b)	Anti-skinning agents Applicability: All paints products	Derogated classifications: H412 (R52/53), H413 (R53), H317 (R43)	0,40 % w/w	Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.

## 3. Corrosion inhibitors

<sup>a</sup> [F<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances>.]

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(a) Anti-corrosion pigments Applicability: Where required	Derogated classifications: H410 (R50/53), H411 (R51/53), H412 (R52/53), H413 (R53) Concentration limits that shall apply:	8,0 % w/w	Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by SDS.
	(i) Paints Directive 2004/42/EC classes d, i, j		
	(ii) All other products	2,0 % w/w	
(b) Verdigris prevention Applicability: Where required	Derogated classifications: H412 (R52/53), H413 (R53)	0,50 % w/w	Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.

#### 4. Surfactants

(a) General purpose surfactants Applicability: Surfactants used in all products.	Derogated classifications: H411 (R51/53), H412 (R52/53), H413 (R53) The following sum total values apply to the ready to use final product: — White and light coloured products — All other colours  The derogation applies to the surfactant formulation supplied to the paint manufacturer. Specific restrictions apply to	Sum total surfactants in the ready to use product: 1,0 % w/w 3,0 % w/w	Verification: Declaration shall be provided by the applicant, raw material suppliers and/or their surfactant supplier supported by CAS No's and classifications for the surfactants used.
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<sup>a</sup> [F<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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	Alkylphenoethoxylates (APEOs) and Perfluorinated surfactants.		
(b) Alkylphenoethoxylates (APEOs) Applicability: Surfactants used in all products.	Alkylphenoethoxylates (APEOs) and their derivatives shall not be used in any paint or varnish preparations or formulations.	n/a	Verification: A declaration of non-use shall be provided by the applicant and their raw material suppliers supported by CAS No's and classifications for the surfactants used.
(c) Perfluorinated surfactants Applicability: Surfactants used in specific products.	Long chain perfluorinated surfactants, as specified in the OECD definition below, shall not be used: (i) Perfluorocarboxylic acids with carbon chain lengths $\geq$ C8, including perfluorooctanoic acid (PFOA); (ii) Perfluoroalkyl sulfonates with carbon chain lengths $\geq$ C6, including perfluorohexane sulfonic acid (PFHxS) and perfluorooctane sulfonate (PFOS); and (iii) Related compounds that may degrade to the	n/a	Verification: A declaration of non-use shall be provided by the applicant and their raw material suppliers supported by CAS numbers and identification of chain length for the surfactants used.

<sup>a</sup> [F<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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		<p>substances identified in (i) or (ii) shall not be present in the surfactant or as a residue in the paint or varnish product.</p> <p>Perfluorinated surfactants that do not meet (i),(ii) or (iii) may only be used in paint that is required to be resistant or repellent to water (see efficiency of use criteria 3(b) and 3(g) respectively) and to have a spreading rate of greater than 8 m<sup>2</sup>/l (see efficiency of use criteria 3(a).</p>		
<b>5. Miscellaneous functional substances with general application</b>				
(a)	<p>Silicon resin emulsion in white paints, colourant and tinting bases</p> <p>Applicability: All paints products</p>	<p>Derogated classifications: H412 (R52/53), H413 (R53)</p>	2,0 % w/w	<p>Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.</p>
(b)	<p>Metals and their compounds</p> <p>Applicability: All products</p>	<p>The following metals or their compounds shall not be present in the product or the ingredients used in the product above the specified cut-off limit: Cadmium, lead, chromium VI, mercury, arsenic, barium, selenium, antimony and cobalt.</p>	0,010 % cut-off per listed metal	<p>Verification: Declaration by the applicant and their raw material suppliers.</p>
<sup>a</sup>	<p>[<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <a href="http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances">http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances</a>.]</p>			

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		<p>The following derogations apply:</p> <ul style="list-style-type: none"> <li>— Barium, antimony and cobalt in pigments (see restriction 5(f))</li> <li>— Cobalt in driers (see restriction 2(a))</li> </ul>	
(c)	<p>Mineral raw materials including fillers</p> <p>Applicability: All paints products</p>	<p>Mineral raw materials including crystalline silica and leucophyllite minerals containing crystalline silica are derogated for H373 (R48/20). Mineral raw materials containing metals referred to in restriction 5(b) may be used if laboratory testing shows that the metal is bonded within a crystal lattice and is insoluble (see test method applicable). The following fillers are derogated on this basis: Nepheline syenite, containing barium</p>	<p>Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications. Applicants wishing to use binders containing restricted metals shall submit test reports carried out in accordance with the listed standard. Test method: DIN 53770-1 or equivalent</p>
(d)	<p>Neutralising agents</p> <p>Applicability: All paints products unless specified</p>	<p>Derogated classifications: H311 (R24), H331 (R23), H400 (R50), H410 (R50/53), H411 (R51/53), H412 (R52/53), H413 (R53) The following concentration limits shall apply:</p>	<p>Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.</p>

<sup>a</sup> [F<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances>.]

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	— Varnishes and floor paints	1,0 % w/w	
	— All other products	0,50 % w/w	
(e) Optical brighteners Applicability: All paints products	Derogated classifications: H413 (R53)	0,10 % w/w	Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.
(f) Pigments Applicability: All products	Pigments containing metals shall only be used where laboratory testing of the pigment shows that the metal chromophore is bonded within a crystal lattice and is insoluble. The following metal containing pigments are derogated for use without the need for testing: — Barium sulphate — Antimony nickel within an insoluble TiO <sub>2</sub> lattice — Cobalt aluminate blue spinel — Cobalt chromite blue-green spinel	n/a	Verification: Test results demonstrating that the pigment chromophore is bonded within a crystal lattice and is insoluble. Test method: DIN 53770-1 or equivalent

#### 6. Miscellaneous functional substances with specialist applications

(a) UV protectors and	Derogated classifications: H317 (R43), H411 (R51/53), H412	0,60 % w/w	Verification: Declaration shall be provided by the applicant and
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<sup>a</sup> [F<sup>2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances>.]



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<p>stabilising agents for outdoor paints</p> <p>Applicability: Outdoor paints</p>	<p>(R52/53), H413 (R53),</p>		<p>their raw material suppliers supported by CAS numbers and classifications.</p>
<p>(b) Plasticisers in paint and varnish.</p> <p>Applicability: Where included in the formulation</p>	<p>The following phthalates shall not be intentionally added as plasticisers:</p> <p>DEHP (Bis-(2-ethylhexyl)-phthalate) BBP (Butylbenzylphthalate) DBP (Dibutylphthalate) DMEP (Bis2-methoxyethyl)phthalate DIBP (Diisobutylphthalate) DIHP (Di-C6-8-branched alkylphthalates) DHNUP (Di-C7-11-branched alkylphthalates) DHP (Di-n-hexylphthalate)</p>	<p>Concentration limit for any individual phthalate: 0,010 %</p>	<p>Verification: Declaration shall be provided by the applicant and their raw material suppliers supported by CAS numbers and classifications.</p>

**[<sup>F1</sup>7. Residual substances that may be present in the final product**

<p>(a) Formaldehyde</p> <p>Applicability: All products.</p>	<p>Free formaldehyde shall not be intentionally added to the final product. The final product shall be tested in order to determine its free formaldehyde content. The sampling requirements for testing shall reflect the product range.</p>	<p>0,0010 %</p> <p>0,010 %]</p>	<p>Verification: The free formaldehyde content shall be determined for the white base or transparent tinting base predicted to contain the highest theoretical amount of formaldehyde. The content of the colour tint which is predicted to contain the highest</p>
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<sup>a</sup> [<sup>F2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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The following sum total limit value shall apply:  
The following derogations are made from the requirement set out in the first paragraph:

(i) Where preservatives that are formaldehyde donors are required as an in-can preservative to protect a specific type of paint or varnish and where the formaldehyde donor is used in the place of isothiazolinone preservatives.

(ii) Where polymer dispersions (binders) provide, through residual levels of formaldehyde, the function of formaldehyde donors instead of in-can preservatives.

In both points (i) and (ii) the sum total shall not exceed the following limit value:

theoretical amount of formaldehyde shall also be determined.  
Test method:  
0,0010 %  
limit value:  
Determination of the in-can concentration using the Merckoquant method. If the outcome is not definitive according to this method then high-performance liquid chromatography (HPLC) shall be used to confirm the in-can concentration.  
0,010 %  
limit value:  
(1) All paints:  
Determination of the in-can formaldehyde concentration by means of analysis using VdL-RL 03 or high-performance liquid

<sup>a</sup> [²ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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			(2)	chromatography (HPLC) Indoor paints and varnishes: Determination by means of analysis according to ISO 16000-3. Emissions must not exceed 0,25 ppm upon first application and they must be less than 0,05 ppm after 24 hours from the first application.
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**[<sup>F4</sup>8. Substances in binders and polymer dispersions**

(a)	Binders and cross linking agents <i>Applicability:</i> — Interior/ exterior trim — Decoration, protection	Adipic acid dihydrazide (ADH) used as adhesion promoter or as a cross linking agent	1,0 % w/w	<i>Verification:</i> A declaration shall be provided by the applicant and their raw material suppliers supported by calculations or by an analytical test report.
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**a** [<sup>F2</sup>ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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—	and coating of wood			
—	Metal coatings			
—	Floor coating			
—	High gloss coating			
—	Architectural and decorative coating			
(b)	Reaction products and residues	The presence of residual methanol is restricted depending on the content of binder in the final product.		<i>Verification:</i> A declaration shall be provided by the applicant and their raw material suppliers supported by calculations or by an analytical test report.
	<i>Applicability:</i> Products with polymer binder systems	— more than 10 % and up to 20 % binder content in the final product	0,02 % w/w	
		— more than 20 % and up to 40 % binder content in the final product	0,03 % w/w	
		— more than 40 % binder content in the final product	0,05 % w/w]	

<sup>a</sup> [ECHA, Biocidal active substances — list of approved active substances, <http://www.echa.europa.eu/web/guest/information-on-chemicals/biocidal-active-substances.>]

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- (1) Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency (OJ L 396, 30.12.2006, p. 1).
- (2) As derived from the Reference Document on Best Available Technology for the Manufacture of Large Volume Inorganic Chemicals (BREF), August 2007.
- (3) Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives (OJ L 312, 22.11.2008, p. 3).
- (4) EN ISO 2813.
- (5) Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products (OJ L 167, 27/06/2012, p. 1).
- (6) Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (OJ 196, 16.8.1967, p. 1).

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