

BREEAM Full Technical Compliance Statement

October 2023

The following BREEAM 2018 compliance and credit summary has been developed to support the design and specification of Dulux Trade decorative paints for project teams looking to design sustainably and maximize BREEAM scores. Although the principle area of interest for paints and coatings in BREEAM is focused on indoor air quality (Hea 02) through the specification of paints with low VOC content and low emissions, there are other BREEAM credit areas where paints and coatings can contribute. The BREEAM scheme focused on in this document is BREEAM New Construction UK 2018 (NCUK) although Appendix 2 includes some notes on the requirements of other BREEAM schemes.

VOC & Formaldehyde Emissions

BREEAM Section: Hea 02 Indoor Air Quality

- Total section credits available = 5
- Paints can contribute to 3 of those 5 credits so long as they comply with the specified criteria.

Topline guidance:

Choose paints with low VOC content and low emissions.

1. Only specify **water-based paints for trim** such as Dulux Trade Quick Dry Undercoat and Gloss, Dulux Trade Quick Dry Satinwood and Dulux Trade Diamond Satinwood
2. Only specify wall paints that have been tested and **passed emissions testing** such as Dulux Trade Vinyl Matt (99.9% VOC Free), Diamond Matt (99.9% VOC Free), Supermatt (99.9% VOC Free), amongst others (see list below)

Detailed Guidance:

VOC Content

There is a requirement for interior paints and coatings to meet VOC content limits in order to qualify for any of the available credits. VOC content limits are defined for different product categories. For determination of VOC content, AkzoNobel uses its own calculation-based method (listed as permissible in testing requirements) although products are also going through external testing for VOC testing to confirm AkzoNobel measures. The VOC content limits in effect prohibit the use of solvent based products.

Emissions

The addition of emissions testing sets stretching limitations on emissions of VOCs, especially Formaldehyde, and Carcinogens. Although VOC emissions have some correlation to VOC content, the rate at which those VOCs are emitted, or 'off-gased', varies significantly. That rate is also a consideration in the emissions testing.

To achieve 1 credit, three of the five product types listed below must have been tested and meet the set emission limits:

- **Interior paints and coatings**
- Wood-based products including wood flooring
- Flooring materials (including floor levelling compounds and resin flooring)
- Ceiling, wall, and acoustic and thermal insulation materials
- Interior adhesives and sealants (including flooring adhesives)

To achieve 2 credits, all of the five product types must meet the level emission limits:

To achieve 1 additional exemplary performance credit, three of the five product types listed above must meet the more stretching exemplary level emission limits.

For detailed data on emission test results, please refer to Table 3 in Appendix 1. Eurofins test certificates can be found in the 'Datasheets & Documents' section of the individual product page on the [Dulux Trade website](#).

Products must have undergone VOC emissions testing and have documented evidence such as an emissions testing certificate in order to meet the requirements. At AkzoNobel, we have chosen to test it independently at Eurofins (an accredited laboratory) following the Indoor Air Comfort Gold test which is based on ISO 16000 / EN 16402.

The following table shows which Dulux Trade products can be used when targeting these credits.

Product	BREEAM Pass Level Emissions criteria	BREEAM Exemplary Level Emissions criteria
Dulux Trade Aisure Vinyl Matt	Discontinued – Aisure technology incorporated into new Vinyl Matt	
Dulux Trade Aisure Diamond Matt	Discontinued – Aisure technology incorporated into new Diamond Matt	
Sikkens Alphatex SF	Pass	Pass
Dulux Trade Diamond Matt (99.9% VOC Free)	Pass	Pass
Dulux Trade Vinyl Matt (99.9% VOC Free)	Pass	Pass
Dulux Trade Evolve Matt	Pass ^{see Note 4}	Fail
Dulux Trade Wood Primer Undercoat	Pass	Pass
Dulux Trade Dry Wall Primer Sealer	Pass	Pass
Dulux Trade Super Grip Primer	Pass	Pass
Dulux Trade Fast Matt	Pass	Pass
Dulux Trade Supermatt (Aisure)	Pass	Pass
Dulux Trade Durable Flat Matt	Pass	Fail
Dulux Trade Quick Dry Undercoat	Pass	Pass
Dulux Trade Quick Dry Satinwood	Pass	Pass
Dulux Trade Quick Dry Gloss	Pass	Pass
Dulux Trade QD Varnish clear gloss	Pass	Pass
Dulux Trade Diamond Satinwood	Pass	Pass
Dulux Trade Mouldshield Fungicidal Matt	Pass	Pass
Dulux Trade Mouldshield Fungicidal Eggshell	Fail	Fail
Dulux Trade Ultramatt	Pass	Pass
Dulux Trade Diamond Glaze Gloss	Pass	Pass
Dulux Trade High Performance Floor Paint	Pass	Pass
Armstead Contract Matt	Pass	Pass
Armstead Vinyl Matt	Pass	Pass
Armstead Durable Matt	Pass	Fail
Dulux Trade Sterishield Diamond Matt	Fail	Fail

Note 1 – all these products comply with VOC Content level requirements

Note 2 – see Table 3 in Appendix 1 for exact values

Note 3 – certificates available on the [Dulux Trade website](#)

Note 4 – Dulux Trade Evolve tested in accordance with CDPH and passed BREEAM entry level in the classroom - i.e. open space wider than 231m³ (12.2m x 7.32m x 2.59m) which could apply to open plan office space as well.

Table 1 – Compliant AkzoNobel paints

There is also a requirement to demonstrate that paints used in wet areas protect against mould growth and provide fungal or algal resistance. AkzoNobel produces specialist interior products for the prevention of bacterial or fungal growth on the paint film for situations where conditions are conducive to such microbial colonization (e.g. kitchens, bathrooms). Dulux Trade Mouldshield Fungicidal Matt is an appropriate and compliant product.

Lifecycle Impact and Environmental Product Declarations

BREEAM Section: Mat 02 – Environmental Impact from Construction Products

- Total section credits available = 1 (if 20 EPD points in the Mat 01/02 Results Submission Tool are achieved)

Each AkzoNobel product would score 1.5 EPD points. If two different AkzoNobel wall paints and one AkzoNobel trim paint are specified, the overall EPD points score would be 4.5 EPD points (however, this would count as 4 EPD points as a maximum of only 4 EPD points is permissible per category).

Specify products with third party certified Environmental Product Declarations (EPDs) that conform to ISO 14025. The following Dulux Trade products have EPDs which meet these requirements:

<i>Interior Walls and Ceilings</i>	<i>Interior Woodwork and Metalwork (Trim):</i>
Dulux Trade Dry Wall Primer Sealer	Dulux Trade Quick Dry Undercoat
Dulux Trade Supermatt	Dulux Trade Quick Dry Gloss
Dulux Trade Vinyl Matt	Dulux Trade Quick Dry Satinwood
Dulux Trade Diamond Eggshell	Dulux Trade Diamond Satinwood
Dulux Trade Diamond High Performance Eggshell	Dulux Trade Quick Dry Wood Primer Undercoat
Dulux Trade Diamond Matt	<i>Interior and Exterior Primer</i>
Dulux Trade Sterishield Diamond Matt	Dulux Trade Super Grip Primer
Dulux Trade Sterishield Diamond Eggshell	<i>Interior and Exterior Metalwork:</i>
Dulux Trade Durable Flat Matt	Dulux Trade Weathershield Smooth Masonry
Dulux Trade Evolve Matt	Dulux Trade Metalshield Zinc Phosphate Primer
Dulux Trade Fast Matt	Dulux Trade Metalshield Gloss
Dulux Trade Mouldshield Fungicidal Matt	Dulux Trade Metalshield Satin
Dulux Trade Scuffshield	<i>Exterior Woodwork:</i>
	Dulux Trade Weathershield Exterior Undercoat
<i>Exterior Walls:</i>	Dulux Trade Weathershield Exterior High Gloss
Dulux Trade Weathershield Smooth Masonry	Dulux Trade Weathershield Quick Dry Exterior Undercoat
	Dulux Trade Weathershield Quick Dry Exterior Gloss
	Dulux Trade Weathershield Quick Dry Exterior Satin

Table 2 – AkzoNobel Products with EPDs

Responsible Sourcing

BREEAM Section: Mat 03 - Responsible Sourcing of Materials

- Total section credits available = 3

Products recognized by responsible sourcing certification schemes can be input into the Mat 03 calculator to assess the number of credits achieved. Dulux Trade holds the BES 6001 Responsible Sourcing for the Stowmarket and Ashington manufacturing site – this covers all core wall paints and

many of the trim paints in the Dulux Trade range. (BES 6001 certificate can be found [here](#) on the Dulux Trade website)

Recycling Programme

BREEAM Section: Wst 01 - Construction Waste Management

- Total section credits available = 4

Construction resource efficiency and diversion of resources from landfill: Add empty paint cans, leftover paint and used decorating sundries to resource management plan to minimize decorating waste produced on site and increase % diversion from landfill.

Empty Paint Can Recycling

Can recycling services are available from most decorators' merchants including the FOC service available via the nationwide network of Dulux Decorator Centres. Add in the following can recycling clause to your specifications or tender documents to contribute to resource efficiency and diversion from landfill. Click [here](#) for further information on the Dulux Decorator Centres scheme.

Can Recycling

'Recycle all empty cans using the FOC recycling service at the Dulux Decorator Centres'

If you have any additional questions or require testing certificates, please contact the Dulux Technical Advice Centre:

Tel. – 0333 222 7171

Email – duluxtrade.advice@akzonobel.com

Innovation

BREEAM Section: Inn 01 – Innovation

- Total section credits available is up to a maximum of 10 credits

There are two routes securing credits

1. Where the building demonstrates **exemplary performance** by meeting defined exemplary level performance criteria in one or more of the stated list of BREEAM assessment areas including:

- **Hea 02 Indoor air quality**

- Mat 03 Responsible sourcing of construction products

- Wst 01 Construction waste management

NB. Please refer to the table in the Hea 02 section above which shows all AkzoNobel products achieving an exemplary level pass.

2. Approved innovations

One innovation credit can be awarded for each innovation application approved by BRE Global, where the building complies with the criteria defined within an approved innovation application form.

Signed on behalf of AkzoNobel (UK Decorative Paints):



Duncan Lochhead
Commercial Sustainability Manager



Rob Talbot
Quality and Regulations Manager, Trade Marketing

Appendix 1 – Emissions Test Results

Product	BREEAM Pass Level Emissions criteria (28 days)				BREEAM Exemplary Level Emissions criteria (28 days)				
	Formaldehyde (≤0.06mg/m ³)	TVOC (≤1mg/m ³)	Cat 1A & 1B carcinogens (≤0.001mg/m ³)	Pass/Fail	Formaldehyde (≤0.01mg/m ³)	TVOC (≤0.3mg/m ³)	TSVOC (≤0.1mg/m ³)	Cat 1A & 1B carcinogens (≤0.001mg/m ³)	Pass/Fail
Dulux Trade Diamond Matt (99.9% VOC Free)	<0.003	0.0091	<0.001	Pass	<0.003	0.0091	<0.005	<0.001	Pass
Dulux Trade Vinyl Matt PBW (99.9% VOC Free)	<0.003	0.0062	<0.001	Pass	<0.003	0.0062	<0.005	<0.001	Pass
Dulux Trade Dry Wall Primer Sealer White	<0.003	0.13	<0.001	Pass	<0.003	0.13	<0.001	<0.001	Pass
Dulux Trade Super Grip Primer	<0.003	<0.005	<0.001	Pass	<0.003	<0.005	<0.001	<0.001	Pass
Dulux Trade Fast Matt White	0.0044	0.014	<0.001	Pass	0.0044	0.014	<0.001	<0.001	Pass
Dulux Trade Supermatt White (99.9% VOC Free)	0.0054	0.078	<0.001	Pass	0.0054	0.078	<0.005	<0.001	Pass
Dulux Trade Ultramatt White	<0.003	0.2	<0.001	Pass	<0.003	0.2	<0.005	<0.001	Pass
Dulux Trade Durable Flat Matt White	<0.003	0.46	<0.001	Pass	<0.003	0.46	<0.005	<0.001	Fail
Dulux Trade Evolve Matt	<0.002**	0.92**	<0.001**	Pass*	<0.002**	0.92**	-	<0.001**	Fail
Dulux Trade Mouldshield Fungicidal Matt PBW	<0.003	0.22	<0.001	Pass	<0.003	0.22	<0.005	<0.001	Pass
Dulux Trade Mouldshield Fungicidal Eggshell PBW	<0.003	1.9	<0.001	Fail	<0.003	1.9	<0.005	<0.001	Fail
Dulux Trade Sterishield Diamond Matt PBW	<0.003	1.6	<0.001	Fail	<0.003	1.6	<0.001	<0.001	Fail
Dulux Trade Quick Dry Undercoat White	<0.003	0.018	<0.001	Pass	<0.003	0.018	<0.005	<0.001	Pass
Dulux Trade Quick Dry Satinwood PBW	<0.003	<0.005	<0.001	Pass	<0.003	<0.005	<0.005	<0.001	Pass
Dulux Trade Quick Dry Gloss	<0.003	<0.005	<0.001	Pass	<0.003	<0.005	<0.005	<0.001	Pass
Dulux Trade Diamond Satinwood PBW	<0.003	0.051	<0.001	Pass	<0.003	0.051	<0.001	<0.001	Pass
Dulux Trade QD Woodprimer undercoat	<0.003	0.073	<0.001	Pass	<0.003	0.073	<0.001	<0.001	Pass
Dulux Trade QD Varnish clear gloss	<0.003	0.16	<0.001	Pass	<0.003	0.16	<0.005	<0.001	Pass
Dulux Trade Diamond Glaze Gloss	<0.003	0.055	<0.001	Pass	<0.003	0.055	<0.005	<0.001	Pass
Dulux Trade High Performance Floor paint	<0.003	0.17	<0.001	Pass	<0.003	0.17	<0.005	<0.001	Pass
Armstead Trade Vinyl Matt White	0.0053	0.17	<0.001	Pass	0.0053	0.17	<0.005	<0.001	Pass
Armstead Trade Durable Matt White	<0.003	0.89	<0.001	Pass	<0.003	0.89	<0.005	<0.001	Fail
Armstead Trade Contract Matt White	0.0069	0.007	<0.001	Pass	0.0069	0.007	<0.001	<0.001	Pass

*Product tested in accordance with CDPH and passed BREEAM entry level in the classroom scenario

** Measurements taken at 14 days in accordance with CDPH

Table 3 – Emissions Test Data

Appendix 2 – Other BREEAM Schemes

Notes on other BREEAM schemes.

BREEAM UK New Construction 2014:

- No requirement to comply with emissions limits
- VOC content requirements are basic and tied to compliance with Phase 2 of 2004/42/CE EU Deco-paint Directive. It is a legal requirement for all decorative paints sold in the UK to comply.

BREEAM International New Construction 2016:

- From a paints and coatings perspective, the precursor to BREEAM NC UK 2018 so almost identical to the requirements highlighted in the main body of this document.

BREEAM International In-Use: Commercial Version 6

Products used should be covered by policies and procedures to ensure no emissions of very volatile organic compounds (VVOCs), including formaldehyde, and volatile organic compounds (VOCs).

The policies and procedures should stipulate appropriate selection criteria for low or no emission products and following the guidelines laid out in this document will ensure low emissions products are chosen.

BREEAM UK Refurbishment & Fit-out 2014 and BREEAM International Refurbishment & Fit-out 2015

The requirements for paints and coatings mirror the requirements of BREEAM UK New Construction 2014 (see above).

Home Quality Mark

- From a paints and coatings perspective, the requirements mirror those in BREEAM NC UK 2018 (see requirements in main doc above)

BREEAM categories	Weighting non-residential		
	Fully fitted	Shell only	Shell & core
Management	11%	11,13%	10,64%
Health & Well-being	19%	12,66%	13,87%
Transport	6%	8,5%	6,67%
Water	7%	3,3%	7,9%
Materials	13%	18,41%	14,67%
Waste	6%	7,43%	6,77%
Land Use and Ecology	8%	9,02%	9,02%
Pollution	10%	6,54%	12,28%
Innovation (additional)	10%	10%	10%
Energy	20%	20,07%	19,09%
Total	100%	100%	100%

