

## Technical Compliance Statement

**Date: January 2019**

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 through the specification of paints with low VOC content and low VOC emissions, there are other BREEAM credit areas where paints and coatings can contribute. The BREEAM schemes focused on in this document are BREEAM New Construction UK 2018 (NCUK), BREEAM New Construction International 2016 (NC INT) and Home Quality Mark (HQM).

### **VOC & Formaldehyde Emissions**

#### **BREEAM Section: Hea 02 Indoor Air Quality**

Section credits available:

NCUK – 5 credits

NC INT – 5 credits

HQM: max 10 credits available (Section - 09 Indoor Pollutants)

Using paints that comply with the specified criteria can contribute to 3 of the 5 credits available.

**Topline guidance** for this section - choose paints with low VOC content and low VOC emissions.

1. Only specify **water-based paints for trim** such as Dulux Trade Quick Dry Undercoat and Gloss, and Dulux Trade Quick Dry Satinwood
2. Only specify wall paints that have been tested and **passed VOC emissions testing** such as Dulux Trade Supermatt and Fast Matt

### **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 prefers to use its own calculation based method (listed as permissible in testing requirements) which has previously approved by the BRE. The VOC content limits in effect prohibit the use of solvent based products.

### **VOC Emissions**

To achieve 1 credit, three of the five product types listed below must meet the level 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:

Emissions data is required for Formaldehyde, Total Volatile Organic Compounds (TVOCs), and Carcinogens.

To achieve 1 exemplary performance credit, three of the five product types listed below must meet the more stretching exemplary level emission limits for Formaldehyde, TVOCs, Total Semi-Volatile Organic Compounds (TSVOCs) and Carcinogens.

Products must have undergone VOC emissions testing and have documented evidence such as a VOC 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 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	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 Diamond Satinwood	Pass	Pass
Dulux Trade Mouldshield Fungicidal Matt	Pass	Pass
Armstead Contract Matt	Pass	Pass
Armstead Vinyl Matt	Pass	Pass
<i>Note 1 – all these products comply with VOC Content level requirements</i>		
<i>Note 2 - additional products undergoing testing</i>		
<i>Note 3 - see Appendix A for exact values</i>		

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). Appropriate products include: Dulux Trade Mouldshield Fungicidal Matt.

## **Lifecycle Impact and Environmental Product Declarations**

### **BREEAM Section: Mat 02 – Environmental Impact from Construction Products**

Credits available:

NCUK – 1 credit

NC INT – 1 credit

HQM: up to 5 credits (Section - 19 Environmental Impact from Construction Products)

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:

<b>Interior Walls and Ceilings</b>	<b>Interior and Exterior Metalwork:</b>
Dulux Trade Dry Wall Primer Sealer	Dulux Trade Metalshield Zinc Phosphate Primer
Dulux Trade Supermatt	Dulux Trade Metalshield Gloss
Dulux Trade Vinyl Matt	Dulux Trade Metalshield Satin
Dulux Trade Diamond Eggshell	<b>Exterior Walls:</b>
Dulux Trade Diamond High Performance Eggshell	Dulux Trade Weathershield Smooth Masonry
Dulux Trade Diamond Matt	<b>Exterior Woodwork:</b>
Dulux Trade Sterishield Diamond Matt	Dulux Trade Weathershield Exterior Flex Undercoat
Dulux Trade Sterishield Diamond Eggshell	Dulux Trade Weathershield Exterior High Gloss
<b>Interior Woodwork and Metalwork (Trim):</b>	Dulux Trade Weathershield Quick Dry Exterior Undercoat
Dulux Trade Quick Dry Undercoat	Dulux Trade Weathershield Quick Dry Exterior Gloss
Dulux Trade Quick Dry Gloss	Dulux Trade Weathershield Quick Dry Exterior Satin
Dulux Trade Quick Dry Satinwood	

### **Responsible Sourcing**

#### **BREEAM Section: Mat 03 - Responsible Sourcing of Materials**

Credits available:

NCUK – 3 credits

NC INT – 3 credits

HQM – max 31 credits available (Section - 18 Responsible sourcing of construction products)

Products recognized by responsible sourcing certification schemes can be input into the Mat 03 calculator for credits. Dulux Trade holds BES 6001 Responsible Sourcing for the Stowmarket manufacturing site – this covers all core emulsions including Dulux Trade Vinyl Matt and Diamond Matt amongst others. ([BES6001 certificate link](#))

### **Recycling Programme**

#### **BREEAM Section: Wst 01 - Construction Waste Management**

Credits available:

NCUK – 4 credits

NC INT – 3 credits

HQM – max 15 credits available (Section – 31 Site Waste)

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 at one of the many decorators merchant outlets operating a can recycling service'*

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](mailto:duluxtrade.advice@akzonobel.com)

**Signed on behalf of AkzoNobel (UK Decorative Paints):**



**Duncan Lochhead**  
Commercial Sustainability Manager

### Appendix A – Emissions Test Results

Product	BREEAM Pass Level Emissions criteria (28 days)				BREEAM Exemplary Level Emissions criteria (28 days)				
	Formaldehyde (≤0.06mg/m <sup>3</sup> )	TVOC (≤1mg/m <sup>3</sup> )	Cat 1A & 1B carcinogens (≤0.001mg/m <sup>3</sup> )	Pass/Fail	Formaldehyde (≤0.01mg/m <sup>3</sup> )	TVOC (≤0.3mg/m <sup>3</sup> )	TSVOC (≤0.1mg/m <sup>3</sup> )	Cat 1A & 1B carcinogens (≤0.001mg/m <sup>3</sup> )	Pass/Fail
Dulux Trade Super Grip Primer	<0.003	<0.005	<0.001	Pass	<0.003	<0.005	<0.001	<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 Wood Primer Undercoat White	<0.003	0.073	<0.001	Pass	<0.003	0.073	<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	0.0054	0.078	<0.001	Pass	0.0054	0.078	<0.005	<0.001	Pass
Dulux Trade Supermatt Tinted Colour	0.0045	0.02	<0.001	Pass	0.0045	0.02	<0.001	<0.001	Pass
Dulux Trade Durable Flat Matt	0.003	0.46	<0.001	Pass	0.003	0.46	<0.001	<0.001	Fail
Dulux Trade Quick Dry Undercoat White	<0.003	0.013	<0.001	Pass	<0.003	0.013	<0.001	<0.001	Pass
Dulux Trade Quick Dry Satinwood Brilliant White	<0.003	0.018	<0.001	Pass	<0.003	0.018	<0.005	<0.001	Pass
Dulux Trade Quick Dry Satinwood Tinted Colour	<0.003	<0.005	<0.001	Pass	<0.003	<0.005	<0.001	<0.001	Pass
Dulux Trade Quick Dry Gloss Brilliant White	<0.003	0.014	<0.001	Pass	<0.003	0.014	<0.005	<0.001	Pass
Dulux Trade Quick Dry Gloss Tinted Colour	<0.003	0.01	<0.001	Pass	<0.003	0.01	<0.001	<0.001	Pass
Dulux Trade Diamond Satinwood Brilliant White	<0.003	0.051	<0.001	Pass	<0.003	0.051	<0.001	<0.001	Pass
Dulux Trade Mouldshield Fungicidal Matt Brilliant White	<0.003	0.22	<0.001	Pass	<0.003	0.22	<0.005	<0.001	Pass
Armstead Trade Vinyl Matt White	<0.003	0.17	<0.001	Pass	<0.003	0.17	<0.005	<0.001	Pass
Armstead Trade Contract Matt White	0.0069	0.007	<0.001	Pass	0.0069	0.007	<0.001	<0.001	Pass