

DUCTWARE PRODUCT REVIEW - FOR GREEN STAR

PRODUCT: 150g Spray Paint Packs (Inc. Specialty Paint)

This product review is current at the time of issue. As Green Star is a constantly evolving and developing rating tool it will remain Ductware's responsibility to ensure that product information relating to Green Star is kept up to date. From time to time the Green Building Council of Australia issue an updated 'Technical Clarifications and CIR Rulings' document that provides clarifications, updates and modifications to the suite of Green Star rating tools. This update by the GBCA takes precedence over all existing printed Green Star rating tools – hence the 'rating tool system' comprises of the relevant Green Star Technical Manual AND the Technical Clarifications and CIR Rulings' document. This document can be found at <http://www.gbca.org.au/green-star/technical-clarifications-cir-rulings/>

GREEN STAR INFORMATION:

APPLICABLE CREDITS	REQUIREMENTS	PRODUCT REVIEW
<p>Contributes to: IEQ-8 Volatile Organic Compounds Applies to all Green Star rating tools.</p>	<p>Paints; 95% of all painted surfaces must meet the TVOC Content Limits outlined in Table IEQ-13.2. (refer attached).</p> <p>Whilst the Credit Criteria only state 'painted surfaces', all paints applied inside the building are included in this Credit's scope, including in-ceiling paints and paints used in installation or maintenance of building services.</p> <p>Building services specifications for Green Star projects will state that <i>'all paints must comply with the VOC emissions limits as per table...'</i> (attached below)</p>	<p>VOC emissions levels of products unknown.</p> <p>All paints are captured by this Credit. Contractors will request product information demonstrating VOC compliance.</p> <p>Whilst there is a '5% margin' for paints that are unable to comply with this Credit, this margin is usually reserved for 'mistakes' rather than for making allowances for non-compliant products.</p> <p>In accordance with IEQ-8 TC No.28 (refer below), TVOC calculations must not exclude 'exempt compounds'</p>



Prepared by: Synergy Green Pty Ltd

Date: October 2009



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GREEN STAR INFORMATION:

APPLICABLE CREDITS	REQUIREMENTS	PRODUCT REVIEW
Contributes to: Mat-7 Waste Management All Green Star rating tools.	At least 60% or 80% of all demolition and construction waste to be reused or recycled.	Contributory; packaging / containers will contribute to on-site waste stream. Contractors are now regularly aiming for 95% recycling rates on site.

TABLE

Maximum TVOC Content Limits for Paints, Varnishes and Protective Coatings

The tables in the Paints and Adhesives tab of this spreadsheet supersede the Paint and Adhesive & Sealant VOC Levels stipulated in the following Green Star rating tools.

- Green Star - Office Design v2
- Green Star - Office As Built v2
- Green Star - Office Interiors v1.1

All Office v2 projects registered after 20/11/2008 must comply with this correction.

All projects registered before this date have the following options:

- 1) Use the tables below as per this technical clarification; or
- 2) Use the tables in the current Technical Manual.

Project teams cannot combine elements from both options to support their submission.

For the tools listed below the only change is the addition of "Walls and Ceilings - interior gloss" to the Paints Table. All other values are identical:

- Green Star - Office v3,
- Green Star - Retail Centre v1
- Green Star - Education v1



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PAINTS	
Product Type/Sub Category	Max TVOC content (g/l of ready-to use product)
Walls and ceilings - interior gloss	75
Walls and ceilings - interior semi gloss	16
Walls and ceilings - interior low sheen	16
Walls and ceilings - interior flat washable	16
Ceilings - interior flat	14
Trim - gloss, semi gloss, satin, varnishes and wood stains	75
Timber and binding primers *	30
Latex primer for galvanized iron and zincalume	60
Interior latex undercoat	65
Interior sealer	65
One and two pack performance coatings for floors *	140
Any solvent-based coatings whose purpose is not covered in table	200
Maximum TVOC Content Limits for Paints, Varnishes and Protective Coatings *EU Directive	

IEQ-8 TC No.28 (Sept'08)

All registered projects must include the exempt compounds (based on ASTM D3960 as well as SCAQMD Rule 1168), in the TVOC calculations.

The exemption for those compounds in the Standards is based on the impact that they have on air pollution, not indoor environment quality (i.e. if the VOC compound did not participate in air pollution reactions, it was exempted from the VOC content). A practice in the industry exists to replace non-exempt compounds (e.g. methyl ethyl ketone) with "exempt compounds" (e.g. acetone) in formulations of paints, coatings and adhesives. While this lowers the TVOC content of the product, it will still have an indoor environment impact. For this reason exempt compounds must be included in TVOC calculations submitted.



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