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BREEAM Compliance Statement

This statement has been compiled to provide quick guidance on the specification of Muralplast products on BREEAM projects.

| Product | VOC Content | EU Limit | Category | VOLUNTARY SCHEME FOR BREEAM | |
|-------------|-------------|----------|----------|-----------------------------|--------------------|
| | | | | EPD | VOC Emissions Test |
| M-Guard HD | >0.1 g/l | 40 g/l | C | Pending | Pending |
| MSP | 140 g/l | 140 g/l | I | Pending | Pending |
| Dust Sealer | <30 g/l | 30 g/l | A | Pending | Pending |
| Perlata | <100 g/l | 200 g/l | L | YES | YES |
| Tactite | <10 g/l | 200 g/l | L | YES | YES |
| Elemental | <2 g/l | 30 g/l | A | Pending | Pending |

Chief Paint Chemist for and on behalf of Muralplast
 July 2024

GENERAL

BREEAM information based on the BREEAM Education 2008 Environmental Assessment Method & in line with The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012

EU Limits taken from Regulation 7 of the Volatile Organic Compounds in Paints, Varnishes & Vehicle Refinishing Products

SUMMARY

Based on the information below Muralplast Products declares compliance with BREEAM "Hea 9" 2008, "Hea 02" 2011 "Hea 02" 2014 and "Hea 02" 2018 (forthwith referred to only as "Hea 02" 2018) and the VOC labelling is present (as required by the Directive) on the back of pack livery.

BACKGROUND

In order to recognise and encourage a healthy internal environment through the specification and installation of internal finishes and fittings with low emissions of Volatile Organic Compounds (VOCs), the BREEAM assessment method allocates credits to buildings demonstrating compliance with certain assessment criteria.

1.0 Volatile Organic Compounds (VOCs) -Decorative Paint Directive 2004/42/CE

All paint and varnish products manufactured by Muralplast conform to the VOC content limits in Phase 2 of 2004/42/CE Directive as per the requirement of BREEAM "Hea 02" 2018, and the VOC labelling is present (as required by the Directive) on the back of pack livery.

1.1 Volatile Organic Compounds - calculation method:

The BRE Technical Group confirmed in Jun 2011 (Ref: ETQ2774) that, for the purpose of compliance with the BREEAM criteria, determining the VOC content of paints using the calculation method described in Note 1 below (in lieu of testing in accordance with ISO standards) is acceptable.

The decision has been made on the grounds that the calculation method described in Note 1 below is accepted for The CLP Regulation (EC) 1272/2008 (enacting the United Nations' globally harmonized system on the classification and labelling of chemicals (GHS) across all European Union countries, including the UK.

Acceptance is subject to the results of such calculations demonstrating that the product(s), in terms of their VOC content, conform to the VOC emission level required in BREEAM "Hea 02" 2018, i.e., Phase 2 of 2004/42/CE for decorative paints and varnishes.

2.0 Fungal and algal resistance:

A particular requirement for "Decorative paints and varnishes" in BREEAM "Hea 02" 2018, is the ability to demonstrate fungal and algal resistance.

All water-based products manufactured by Muralplast contain in-can and film biocides where the formulation type and conditions of use of the product require the use of these additives.

The in-can biocides used across all water-based Muralplast products provide protection against a wide range of microorganisms in order to prevent spoilage of the paint in the can. In-film biocides are not normally used unless required and appropriate. Muralplast does not add biocides to interior products to protect against algae, as algal growth in normal interior situations is not a problem. Generally, bacteria and fungi are also not a problem in interior modern housing.

Specialist interior products are available, however, for the prevention of bacterial or fungal growth on the paint film for situations where conditions are conducive to such microbial colonization. This approach avoids the use of biocides unnecessarily which is in line with Muralplast product stewardship policy.

Based on the addition of protective biocides where needed, and without any specific measurement of resistance levels, Muralplast products demonstrate compliance for "fungal and algal resistance" as stated in BREEAM "Hea 02" 2018.