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DECLARACIÓN DEL FABRICANTE

IEDISA declara que debido al carácter mineral de los productos Graphenstone®, éstos tienen un elevado pH (>12) y una alta permeabilidad al vapor de agua lo que evita la acumulación de agua en el soporte. Estos dos efectos, naturales e intrínsecos en los productos, previenen de la proliferación de hongos y moho.

Sin embargo, en zonas severas se recomienda aplicar previamente **AmbientPrimer L44 Premium** diluido 1:1 con agua. Esta imprimación también previene del crecimiento de algas. El contenido en compuestos orgánicos volátiles de dicho producto es de 0.06% en peso (ver informe adjunto).

MANUFACTURER DECLARATION

IEDISA declares that due to the mineral nature of Graphenstone® products, they have a high pH (> 12) and a high permeability to water vapor which prevents the accumulation of water in the substrate. These two effects, natural and intrinsic in the products, prevent the fungi and mould growing.

However, in severe areas it is recommended to apply previously **AmbientPrimer L44 Premium** diluted 1: 1 with water. This primer also prevents the growth of algae. The content of volatile organic compounds of this product is 0.06% by weight (see report attached).

Fdo: Patricia Silva
Dept. Técnico Graphenstone
(20/02/2017)

BRE Test Report

VOC content in paint sample

Prepared for: Sarah Haswell
Date: 31/01/2018
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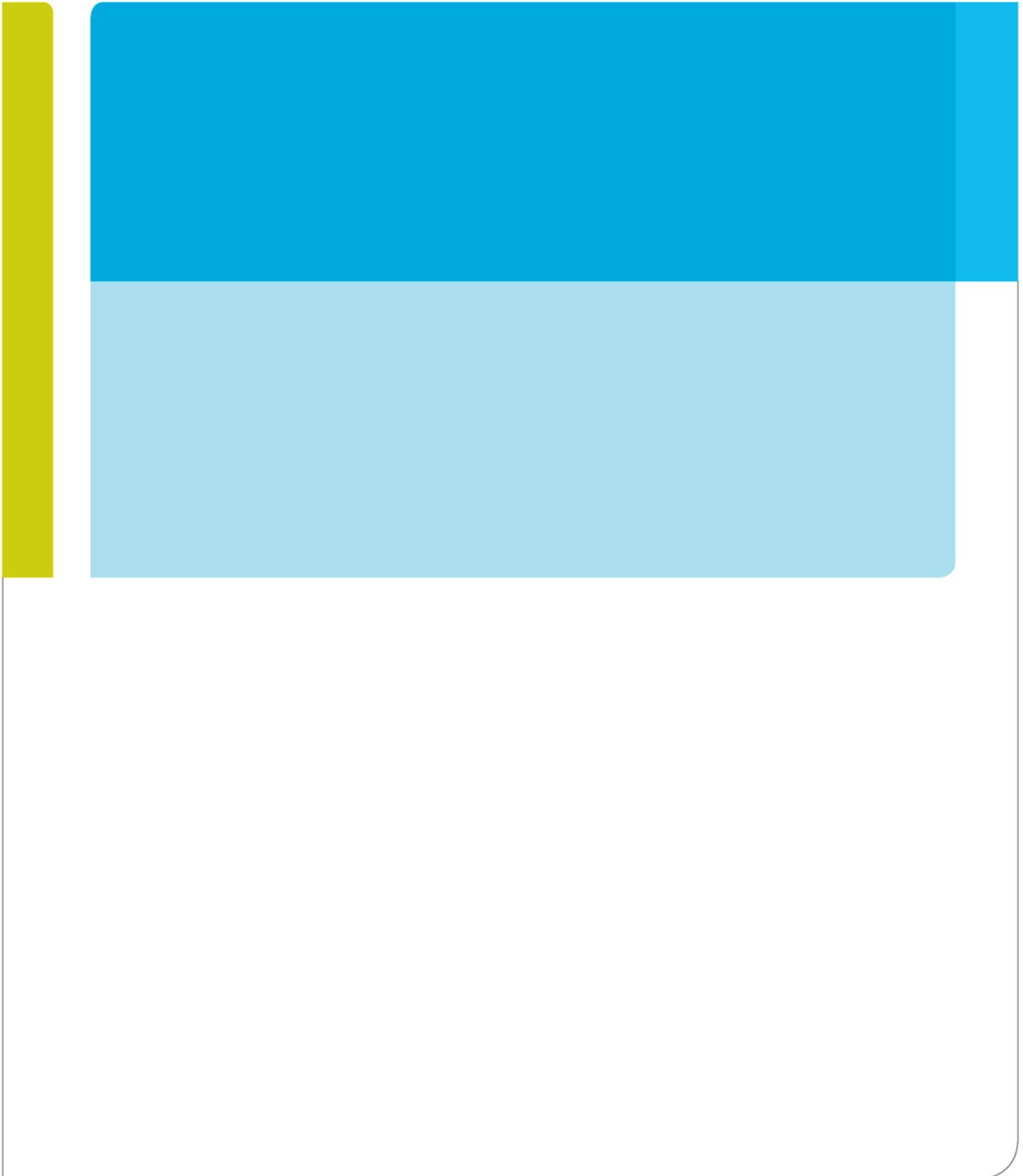
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Date 31 January 2018

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Date 31 January 2018

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Table of Contents

1	Introduction	3
2	Test programme	4
3	Test results	5



1 Introduction

Sarah Haswell of The Graphene Company (London) Ltd. ("the Client") commissioned BRE for the investigation of the VOC content of one paint.

Two paint samples, 'AmbientPrimer paint' and 'AmbientPrimer paint with 1:1 water dilution' were delivered at BRE on 16 January 2018. Only the latter sample was to be analysed.



2 Test programme

Sarah Haswell of The Graphene Company (London) Ltd. ("the Client") commissioned BRE to undertake an investigation of the VOC content of one paint sample.

Two paint samples, 'AmbientPrimer paint' and 'AmbientPrimer paint with 1:1 water dilution' were delivered to BRE on 16 January 2018.

The 'AmbientPrimer paint 1:1 with water' was analysed according to the standard method ISO 11890-2 (*Paints and varnishes - Determination of volatile organic compound (VOC) content Part 2: Gas-chromatographic method*), with the exception that the diluted extract was injected to the GC using a thermal desorption tube.

The paint sample was diluted in methanol and analysed qualitatively to confirm the absence of iso-butanol (CAS no. 78-83-1) which was to be used as an internal standard (IS). After the qualitative analysis, a suitable quantity of iso-butanol (the IS) was added in the paint sample, which was then analysed for the VOC content by thermal desorption and gas chromatography (ATD/GC) using a flame ionisation detector (FID). The VOC content was quantified as total volatile organic content (VOCs, compounds having boiling points within 60-280°C) - as toluene equivalent.



3 Test results

Table 1: VOC content (w/w %) in paint sample.

Sample Identification	VOC content (w/w %) in paint
AmbientPrimer paint 1:1 with water	0.06%