

Confirmation

Ulm, 11/10/2018

To whom it may concern

We herewith confirm that our product

UZIN KE 2000 S Universal pressure-sensitive and wet adhesive

meets the requirements of Hea 02 Indoor Air Quality (BREEAM International New Construction 2016) for the product type 'Interior adhesives and sealants (including flooring adhesives)'.

The product does not only meet the emission criteria (basic requirements) but also the exemplary level emission criteria which will achieve an additional credit.

UZIN KE 2000 S even meets the stricter requirements of "very low emission" products (EMICODE EC 1 PLUS) according to the criteria of the GEV (Association for the Control of Emissions in Products for Flooring Installation, Düsseldorf, Germany). Products labeled with EMICODE EC 1 PLUS have passed a specific test-chamber measurement performed according EN ISO 16000-9 (same requirement as for BREEAM) . EC 1 PLUS-products thus stand for modern, solvent free and extremely low emission flooring installation materials. In respect of Indoor Air Quality, they provide the most ecological method for state-of-the-art flooring installation.

| | Emission criteria BREEAM 28 d | Exemplary level emission criteria BREEAM 28 d | EMICODE EC 1 PLUS 28 d |
|-----------------------------------------------------|----------------------------------|-----------------------------------------------------|----------------------------------------|
| Total volatile organic compounds (TVOC) | ≤ 1.0 mg/m ³ | ≤ 0.3 mg/m ³ | ≤ 0.06 mg/m ³ |
| Total semi-volatile organic compounds (TSVOC) | No requirements | ≤ 0.1 mg/m ³ | ≤ 0.04 mg/m ³ |
| Formaldehyde | ≤ 0.06 mg/m ³ | ≤ 0.01 mg/m ³ | 0.05 mg/m ³ (after 3 d!) |
| Carcinogens (Cat. 1A and 1B) | ≤ 0.001 mg/m ³ | ≤ 0.001 mg/m ³ | ≤ 0.001 mg/m ³ |
| Testing requirements* | ISO 16000-9 | ISO 16000-9 | ISO 16000-9 |



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*According to the criteria of BREEAM International New Construction 2016 – Hea 02 Indoor air quality the following emission testing requirements can be applied equally: EN 13999 (Parts 1-4) or ISO 16000-9 or CEN/TS 16516 or CDPH Standard Method v1.1. Uzin Utz has opted for ISO 16000-9 in all of its emission declarations including BREEAM.

We hope this information supplies you with the support you require. In case of further questions please do not hesitate to contact us.

Sincerely

UZIN UTZ AG

Dr. Michael Zieger

- Head of Product Safety Management -

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