

Attestation

AgBB

On the 6th of July 2023 Eurofins Product Testing A/S received a sample of a joint sealant with the product name:

Flame cabel pasta A, Pircoat A, Piroacrylic Sealant AC120, NIPRO 2D.

supplied by

Carboline Polska sp. z.o.o.

The emissions were tested according to AgBB (AgBB - Committee for Health-related Evaluation of Building Products). Sampling, testing and evaluation were performed according to ISO 16000-3, ISO 16000-6, ISO 16000-9, and ISO 16000-11 (see the test report no. 392-2023-00263301_D_EN).

Evaluation of the emission test result according to AgBB:

- The sum of VOC ("TVOC") after 3 days was in compliance with the limit of ≤ 10 mg/m³.
- The sum of VOC ("TVOC") after 28 days was in compliance with the limit of ≤ 1 mg/m³.
- The sum of SVOC after 28 days was in compliance with the limit of ≤ 0.1 mg/m³.
- After 28 days the value R was calculated from the detected VOC with single concentrations above 5 µg/m³. This value R was in compliance with the limit of ≤ 1 .
- The sum of VOC without LCI-value after 28 days was in compliance with the limit of ≤ 0.1 mg/m³.
- The concentration of formaldehyde after 28 days was in compliance with the limit of ≤ 0.1 mg/m³.
- Carcinogenic substances were not detectable after 3 and after 28 days

The tested product complies with the requirements of AgBB including the LCI-values (June 2021) for use in the indoor environment.

9 August 2023



Rasmus Verdier
Analytical Service Manager

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LEED v4 and v4.1 BETA

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supplied by

Caroline Polska sp. z.o.o.

The sample was supplied as being representative of the manufactured product, and it has been tested in accordance with the relevant ISO 16000, EN 16516, and ASTM D2369 testing standards (See test report no. 392-2023-00263301_A_EN and no. 392-2023-00263303_XG_EN).

The test results of the tested sample indicate that the product qualifies for LEED v4 and LEED v4.1 BETA (February 2021) projects outside the US by showing compliance with the specifications for VOC emissions and VOC content by complying with:

VOC emissions specifications in LEED EQ credit "Low-Emitting Materials" for LEED projects outside the US:

- The requirements of LEED v4.1 BETA (February 2021) by not exceeding the LCI values mentioned in the German AgBB Testing and Evaluation Scheme (2018), showing an overall R-value below or equal to 1 and having a TVOC according to EN 16516 below or equal to 1,000 µg/m³, a sum of VOC without LCI less than 100 µg/m³ and a formaldehyde emission below or equal to 10 µg/m³; all after 28 days.
- The requirements of LEED v4 by complying with:
 - The requirements of EMICODE (EC1 PLUS), version of April 2020, with the additional formaldehyde limit of 10 µg/m³ after 28 days.

VOC content specifications in LEED EQ credit "Low-Emitting Materials" for LEED projects globally:

- The requirements of LEED v4 and LEED v4.1 BETA (February 2021): South Coast Air Quality Management District (SCAQMD) Rule 1168 (2017) for 'All Other Sealants*' having a VOC content below 250 g/L.

9 August 2023



Rasmus Verdier
Analytical Service Manager

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BREEAM®

On the 6th of July 2023 Eurofins Product Testing A/S received a sample of a joint sealant with the product name:

Flame cabel pasta A,Pircoat A,Piroacrylic Sealant AC120,NIPRO 2D.

supplied by

Carboline Polska sp. z.o.o.

The sample was supplied as being representative of the manufactured product, and it has been tested as in accordance with the relevant EN 16516, ISO 16000-3, ISO 16000-6, ISO 16000-9, ISO 16000-11 testing standards (See test report no. 392-2023-00263301_A_EN).

The test results of the tested sample indicate that the product qualifies for the below mentioned BREEAM specifications on VOC emissions by complying with:

- **BREEAM® International: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM International: New Construction 2021, Technical Manual – SD250: Hea 02 Indoor Air Quality (version 6.0. of December 2021).
- **BREEAM® UK: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM UK: New Construction 2018, Technical Manual: Hea 02 Indoor Air Quality (version SD5078 issue 3.0 of July 2019).
- **BREEAM® NL: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NL: Nieuwbouw 2020, Technical Manual: Hea 02 Interne Luchtkwaliteit (Version 1.0 of June 2020).
- **BREEAM® SE: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM SE: New Construction 2021, Technical Manual: Hea 02 Indoor Air Quality (version 6.0. of January 2023).
- **BREEAM® NOR: Compliance with 'Exemplary' criteria on VOC emission** of BREEAM NOR: New Construction 2022, Technical Manual - SD5076NOR, Hea 02 Indoor Air Quality (version 6.0 of February 2022).

9 August 2023



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