



AURO AG • Postfach 1238 • D-38002 Braunschweig

Ventamar
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Italy

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AURO Aqua Woodstain No. 160 Circulating Video about formaldehyde emission

Dear Mr. Ricci and Mr. Nardelli,

we refer to the video that you have sent us showing an emission test of our AURO Aqua Wood stain No. 160. After having watched this video we would like to point out the following information.

The product 160 dries oxidatively due to the natural oil/natural resin binder used in this product. During this drying process, aldehydes and thus also formaldehyde (CH_2O) are formed as emission products. This is a well-known process of drying oils and cannot be prevented with these products. It is natural process and even wood emits CH_2O . If this process would not take place, the oil is not a natural oil and must be somehow oxidized (chemically modified) before. The drying behaviour would change completely then.

However, the measurement shown in the video is not entirely meaningful. Of course, the measurement proves that CH_2O is present, but the bucket has been opened and the oxidation process is in full swing. How long the bucket was not opened (accumulation of aldehydes) is not clear.

Strictly speaking, one would have to take a measurement of the room air under controlled conditions, such as in the AgBB scheme. This would give a statement that is standardised and represents an emission value over a certain period of time and a defined sample quantity only of the sample itself. In a real room you additionally have to take care about other emission sources like the wood, the paint is applied on (as mentioned above) or other materials used while the renovation of the room/building. In the case you mentioned, you only have an absolute value in a bucket which is not representative for the normal application scenario.

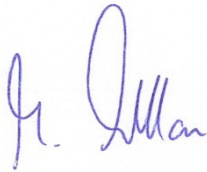
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The Wood stain No. 160 has passed successfully the strict emission tests of the AgBB (<https://www.umweltbundesamt.de/en/topics/health/commissions-working-groups/committee-for-health-related-evaluation-of-building#agbb-health-related-evaluation-of-emissions-of-volatile-organic-compounds-vvoc-voc-and-svoc-from-building-products>).

The AgBB requirements were clearly undercut in the test and the Wood stain was assessed as low-emission product. The strict requirements of the French VOC regulation were also achieved with a top mark of A+. You can find the certificate here: <https://www.auro.de/downloads/pdf/AgBB-Zertifikat-Holzlasur-160-90-d.pdf>.

We hope that this answer will allay your customer's concerns.

Best regards,



Dr. Markus Lettau
AURO Pflanzenchemie AG
Head of Research and Development