

RE: Building Green's Review

Air Krete was recently reviewed in a less than positive manner in an article written by Tristan Roberts, Editorial Director of Building Green Inc. Attached find "What About Air Krete?" A Deeper Look at the Insulation Alternative. Please review... http://www.airkrete.com/pdf/What_About_AirKrete.pdf

We would like to take this opportunity to respond and comment on the contents of the article. In a continuing effort to improve the Air Krete Product, research and development has been ongoing for the past several years. Due to Equipment and Product modifications, we developed a "NEW" Air Krete "Greensulation" Product that looked like a winner to us.

In May 2013, Keene Christopher, CEO, President of Air Krete, and Co-Inventor of both the Original Patented Product as well as the "NEW" Air Krete "Greensulation" Product contacted Dynalene Laboratory Services, Inc. of Whitehall, Pa, to perform a "R Value" Test on the "NEW" Product. Dynalene Labs on their own determined that Air Krete was "not suitable" for the Guarded Hot Box (ASTM C518) testing method due to the "friability" of Air Krete and not being able to "seal the edges" without crushing/compressing the Air Krete Sample. The Lab choose to use a new testing device called the KD2 PRO made by Decagon Devices (<http://www.decagon.com>) .

The KD2 PRO complies with ASTM D5334-08.

<http://www.decagon.com/assets/Uploads/KD2-Pro-Compliance-to-ASTM-and-IEEE-Standards.pdf>

NOTE: ASTM D5334-08 is a significantly updated version of the Standard Test Method for Determination of Thermal Conductivity of soil and rock. It uses the Transient Line Heat Source Method to measure Thermal Conductivity, Resistivity, Diffusivity, and Specific Heat. Sophisticated Data Analysis is based on 30+ years of experience that "Lives" inside the KD2 PRO, including the experience gained working with NASA to develop the thermal properties sensor used in the Mars Phoenix Lander Mission in 2008, and research experience on heat and mass transfer in Soil, Concrete/Grout, and other "porous materials". SINCE AIR KRETE IS CEMENTITIOUS, THIS TEST IS PERFECTLY SUITED FOR AIR KRETE.

http://manuals.decagon.com/Application%20Notes/13391_Finding%20R%20Value%20of%20Insulation%20Using%20KD2_Print.pdf

On two different occasions, two different samples, one created on Feb 27,2013, and the other sample created on Aug 23,2013 were sent to Dynalene Labs for testing. BOTH LAB TESTS yielded the SAME RESULTS (See attached) , a "R Value of 18 at a three inch thickness", earning Air Krete a "R Value" per inch thickness of R-6. Realizing that there are various ASTM Testing Methods for "R Value",we assumed that the testing done by Dynalene was ASTM approved for our Air Krete Product. We recently learned that ASTM D5334-08 is not an acceptable alternative to the ASTM C518 (Guarded Hot Box) Test. Air Krete is working diligently in tandem with Dynalene Labs and Decagon Devices to petition ASTM to accept the KD2 PRO's Transient Line Heat Source Method to Measure Thermal Conductivity and Resistivity. In the past, others successful in petitioning for ASTM modifications were Cellulose and Perlite to name a few. ASTM is scheduled to meet this upcoming October...STAY TUNED...

In the meantime, we have made arrangements to have Dynalene Labs test IDENTICAL AIR KRETE SAMPLES using BOTH the KD2 PRO and the LESS SUITED Guarded Hot Box ASTM C518 Tests.

Additionally, we are sending the same batch samples to Decagon Devices for their evaluation also. These results will be useful in “pleading our case” with ASTM and we will also share those Test Results as they become available. Further, Air Krete is in the process of doing additional ASTM Tests needed for an ICC-ES Evaluation Report which documents compliance with the 2012 International Building Code (IBC), the 2012 International Residential Code (IRC), and the 2012 International Energy Conservation Code (IECC). In doing research on the “What About Air Krete?” A Deeper Look at the Insulation Alternative article, Tristan Roberts interviewed David Ober “as an Independent Building Science Consultant based in North Carolina”. TO BE FAIR...HE NEVER MENTIONED DAVID OBER’S PAST AFFILIATION AS DIRECTOR OF TECHNOLOGY AT US GREENFIBER CELLULOSE INSULATION ALSO BASED IN NORTH CAROLINA....CO-INCIDENCE???? According to “LINKEDIN”, Mr. Ober in the past has also been affiliated with CertainTeed Corporation as well as Johns Mansville to name a few. These three Companies are Major Players in the Insulation Industry. “One” would think that “One” would interview someone without any bias towards any Insulation Product to consult with in the drafting of this article.

Architects, Specifiers, Inspectors, Contractors, Buyers and occasionally even Manufactures are sometimes unsure about laws, regulations, specifications, and standards that apply to building insulations. I know in writing this response to the article written by Tristan Roberts that it has been a Pain In The ASTM as to all the rules, regulations, and interpretations; and I know that I PERSONALLY HAVE LEARNED A LOT and hope that you too now have a better understanding of where we are at this time. Thank you for your understanding and patience as we work through this process on our “NEW” Air Krete “Greensulation” Product.

Sincerely,

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SAVE MONEY... SAVE ENERGY....

air krete
GREENsulation™

- Fire Proof
- Great R Value
- Pest Resistant
- Mold Resistant
- Non Allergenic

- Acoustically Engineered To Act As A Sound Barrier
- Zero Shrinkage and Fills All Cavities

ALL GREEN INSULATION

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The advertisement banner features a central image of a worker in a green safety vest applying insulation to a brick wall. To the left, a worker is shown using a spray-on application method. The background includes a city skyline at night. The text is arranged around the central image, with the company name 'air krete' in a large, stylized font and 'GREENsulation™' below it. Two columns of bullet points list product benefits on either side of the central text. The top of the banner has the slogan 'SAVE MONEY... SAVE ENERGY....' in a bold, yellow font. Vertical text on the far left and right edges reads 'ALL GREEN INSULATION'.