H.B. Fuller | Connecting what matters.™

CASE STUDY

Körapur®645 to bond fiberglass mesh on the back of thin big tiles

Product performance that assures improved flexibility of the tile without easy breaking as the resistance is increased.

The ceramic industry is an innovative and dynamic market in which colors, designs and textures are constantly changing. Large and thin tiles are now a growing trend that creates an outstanding visual and end-result, but also represents new technical requirements to the suppliers.

In this particular case, a top quality manufacturer that produces very thin and large tiles was facing some problems with the application of the adhesive. The product was too sticky, foaming during the application and not stabilizing after storage, which cause several problems on the production process.

Considering this issue, the customer was looking for a reliable solution to assure an efficient application process and high levels of quality in the end product.

After a deep and strict analysis of our technical team, Körapur® 645, a high performance adhesive to bond fiberglass mesh on the back of thin big tiles, was suggested as an appropriate solution.

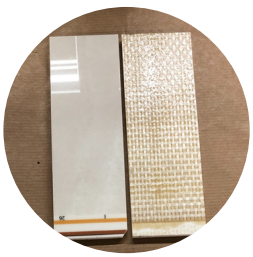
The results after the first trials revealed:

- No clogging of the application nozzles
- Completely and homogeneous application of the adhesive on the ceramic panels at process speed
- Very good wetting of the adhesive with the glass fiber net after silicone roller treatment
- No foaming of the adhesive before and after oven treatment
- No tack after oven treatment
- No excess of adhesive on the edges of the ceramic panels
- Very good adhesion of the glass fiber net after 7 day room temperature storage

KÖRAPUR®645 ALSO PASSES THE FOLLOWING TESTS

Ball drop
Ceramic parts adheres very well onto the glass fiber net

Water jet cutting
Perfect cutting edge



24h boiling water
Very good adhesion

CUSTOMER QUOTE

"With Körapur®645 we were able to achieve outstanding results by optimizing our application process, maintaining high quality standards." - Plant Manager

FROM THE OEM PERSPECTIVE

"The H.B. Fuller technical team offered relentless support during the lines setup and throughout the process. Körapur®645 run in our production lines in a constant and reliable mode, making it possible to overcome challenging production conditions due to its easy-to-handle characteristics."

Ask H.B. Fuller about how we can help you improve your production process with our innovative bonding solutions.

About H.B. Fuller

Since 1887, H.B. Fuller has been a leading global adhesives provider focusing on perfecting adhesives, sealants and other specialty chemical products to improve products and lives. H.B. Fuller's commitment to innovation and sustainable adhesive solutions brings together people, products and processes that answer and solve some of the world's biggest challenges. Our reliable, responsive service creates lasting, rewarding connections with customers in electronics, disposable hygiene, medical, transportation, aerospace, clean energy, packaging, construction, woodworking, general industries and other consumer businesses. And, our promise to our people connects them with opportunities to innovate and thrive. For more information, visit us at **hbfuller.com.**

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