

Press Release

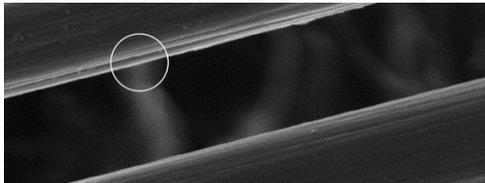
World debut: BYK develops the first coupling agent for carbon fibers

- Suited for all types of carbon fiber
- Improves flexible and transverse tensile strength by up to 70 percent
- Liquid additive, easy to incorporate

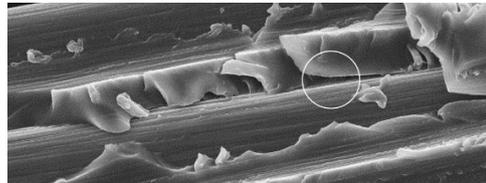
Wesel, February 21, 2018 – [BYK-C 8013](#) is a solvent-free, polymeric coupling agent for improving the mechanical strength of carbon-fiber-reinforced, radical-curing systems, and it is the world's first coupling agent for carbon fibers.

It is used in vinyl esters and unsaturated polyester resins that are processed to composite parts using carbon fibers. The cross-fiber strength is greatly improved, making far **greater design freedom** possible.

[BYK-C 8013](#) increases both the transverse tensile strength and the flexible strength of the composite by means of improved fiber-matrix bonding. The chemical structure of the additive provides **simultaneous adhesion to the fiber and to the resin matrix**. This unique property makes changes in the component design possible, and it enables particularly durable components to be manufactured. Especially in hot-curing processes such as SMC/BMC, pultrusion, prepreg or RTM, BYK-C 8013 brings about increases in strength of up to 70 percent.



No coupling effect



Coupling effect with BYK-C 8013

Click on the image to obtain a printable version of the image.

The reactive additive can be introduced to the size during fiber production or to the resin shortly before processing. In subsequent, so-called "second sizing", BYK-C 8013 can, for example, be applied to the fiber in a spraying process, without the need to remove the first coat beforehand.

This innovative additive will be unveiled and premiered before a trade audience at **Booth E40 in Hall 5a of the JEC in Paris from March 6 to 8.**

More information on byk.com/jec .

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Press Release

BYK is one of the world's leading suppliers in the field of additives and measuring instruments. Additives are chemical substances which, when used in small quantities, improve product properties such as scratch resistance or surface gloss. Manufacturing processes are also optimized by the addition of additives.

The coatings, inks, and plastics industries are among the main consumers of BYK additives. Yet with the production of oil and gas, the manufacture of care products, the production of adhesives and sealants, and construction chemistry, too, BYK additives improve the product characteristics and production processes. Testing and measuring instruments from BYK can effectively evaluate the quality of color, gloss, and appearance as well as the physical properties of paint, plastic, and paper products and are an important part of quality control.

As a globally operating specialty chemicals company, BYK has production sites in Wesel, Kempen, Moosburg, Schkopau and Geretsried (Germany), Deventer, Denekamp and Nijverdal (Netherlands), Widnes (UK), Wallingford, Chester, Gonzales, Louisville, Rochester Hills, Earth City (USA) and Tongling (China).

Today the company employs around 2,200 people worldwide and forms part of the ALTANA Group.

This press release is also available on the Internet at www.byk.com/press.

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