



## Brighter use of CO<sub>2</sub>

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Covestro is using carbon dioxide as a new building block for high-quality products, which saves part of the oil-based raw materials used to date. Thanks to an innovative technology co-developed by Covestro, up to 20 percent of CO<sub>2</sub> can be chemically bound into a new kind of polyol – a key component to make polyurethanes. Covestro has been producing CO<sub>2</sub>-based polyols since 2016 at its site in Dormagen, Germany, and markets them under the name cardyon®.

The first product of this kind launched on the market is for flexible polyurethane foam, which is used in upholstered furniture and mattresses. Most recently, Covestro came up with a CO<sub>2</sub>-based binder for sport floorings as second application area.

But this is only the beginning: Covestro wants to use CO<sub>2</sub> in as many different types of plastics as possible and to replace as much fossil raw material as possible with CO<sub>2</sub>. In various research and development projects which are publicly funded the company is working closely with other firms and universities on applications ranging from CO<sub>2</sub>-based rigid polyurethane foam for the thermal insulation of buildings to textile fibers from thermoplastic polyurethane.