



EMBEDDING CO₂
INTO THE FUTURE?
WHY NOT?





Let's realize market differentiation and business potential

Take the lead towards circular thinking and realize more responsible solutions



Reuse

Inspired by nature, our Triturn®-Technology enables to **reuse** CO₂ as valuable material source in polyol production and reduce up to 20% of fossil feedstock* which is normally used.



Reduce

As a key contributor to a circular economy, reusing CO₂ **reduces** dependency on fossil fuels and delivers a positive environmental impact – without compromising quality.



Realize

Together, we can **realize** more sustainable innovations for consumer products without compromising on quality. Let's **realize** the full business potential together.

* propylene oxide

In the end, it's about our responsibility for the planet

Triturn®-Technology reacts to consumer demands and environmental awareness



actively avoid consuming from companies that have a negative environmental or social impact.



say brands have a responsibility to do more than generate profit.

Sources: Havas (2016)

At Covestro, we take pride in being at the forefront of demand

CO₂ recycling is a smart innovation for circular solutions



Reuse

Using cardyon® as a more sustainable polyol will enable you to:



... leverage **your existing production setup**.



... work with the **same high quality**.



... **partially replace fossil resources** and support the circular economy.



Demonstrate your commitment to responsible manufacturing

Triturn®-Technology allows you to make an impact for a brighter future



Reduce

Take the lead with us towards circular thinking and position your company as an innovative and responsible player in the industry. Living up to social expectations and regulatory pressure, it allows you to **reduce your carbon footprint***.

* scope 3 emissions: indirect CO₂ emission savings

"CO₂-based polyol production reduces CO₂ emissions by up to 18% compared to conventional polyol production."

Source: GreenChemistry (2014)

At Covestro, we believe that CO₂ is a unique opportunity

Triturn®-Technology adds value through sustainable market differentiation



Realize

Our Triturn®-Technology can be leveraged for many different types of applications and industries.



Flexible foam for mattresses



Binder for sports flooring



Flexible foam for automotive



Flexible foam and TPU for shoes

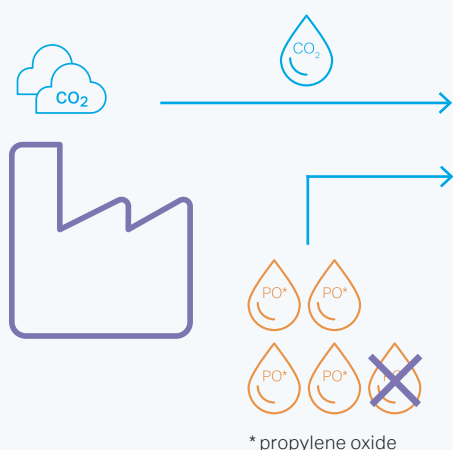


Elastic fibers for textiles

Reusing CO₂ as raw material in polyol production

Preserving fossil resources and saving CO₂ emissions

Adjacent chemical plant



CO₂ is sourced from an adjacent chemical plant

COVESTRO demo plant



Inspired by nature,
our Triturn®-Technology enables reusing CO₂ to preserve scarce fossil resources and reduce CO₂ emissions

cardyon®



Up to **20% CO₂**
chemically bound
in **cardyon®** polyol

Key facts about our cardyon® demo plant:

- Industrial production of **cardyon®** polyols at Covestro since 2016
- Specialized industrial production facility in Dormagen, Germany
- Production capacity of 5,000 metric tons per year
- Commercially only available in Europe



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¹Please see the "Guidance on Use of Covestro Products in a Medical Application" document.

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