

Produce more adhesive and
sealant with less energy
thanks to Omya solutions



Omyabond® Technology

Natural Functional Minerals
to control Water in Adhesives
and Sealants production



THINKING OF TOMORROW

Omyabond Technology

Sustainably Optimize Productivity by Controlling Moisture.

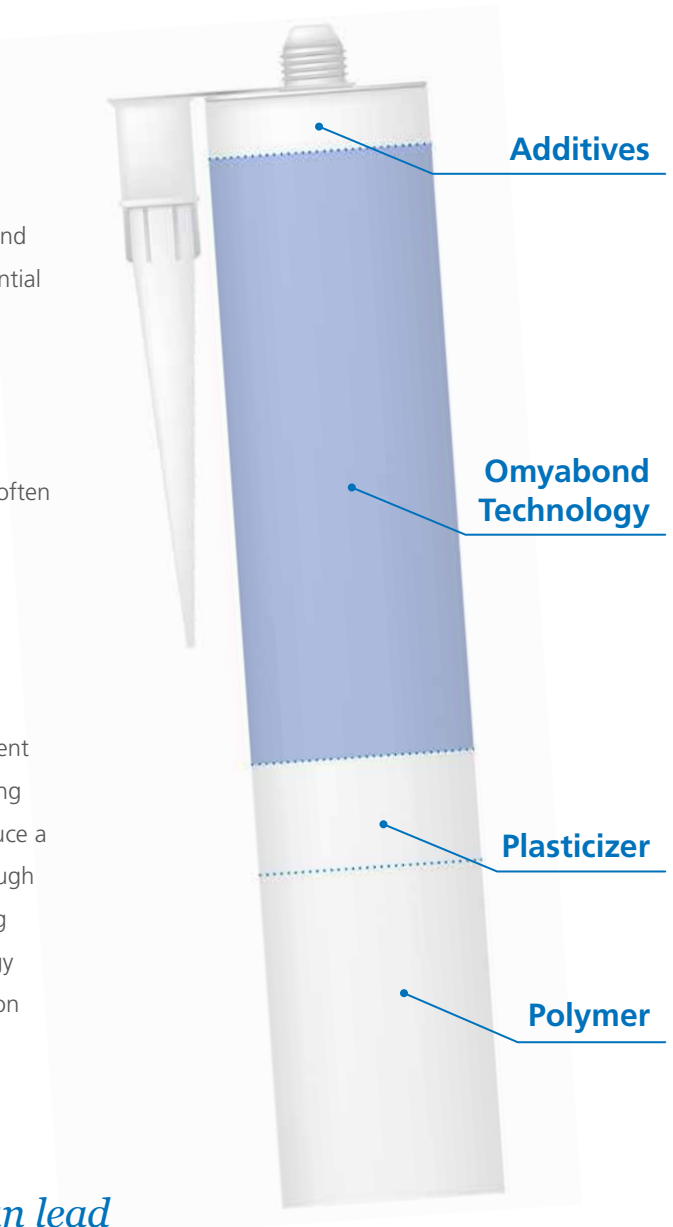
In an increasingly eco-conscious international society, the construction industry is called to do its part in helping offer meaningful solutions which are reliable and sustainable.

Efforts aimed at resource preservation, long-term durability and carbon footprint reduction must be balanced with their potential impact on manufacturing, energy costs and storage stability.

Water plays a critical role in numerous production processes. Effectively managing water when making moisture-reactive adhesives and sealants, which cure using ambient humidity, often presents a significant challenge.

Calcium carbonate is a natural fit – not only because it is a sustainable raw material, but also because this mineral filler can enhance mechanical and rheological properties of the formulations where it is added. It is often the major component of moisture reactive formulations, with addition levels reaching up to 60%. The substantial quantity of filler used can introduce a significant amount of moisture which must be removed through either mechanical or chemical methods, potentially impacting both production and energy expenses. Omyabond Technology mitigates the necessity for water removal, lowering production and energy costs.

Utilizing Omyabond Technology can lead to reductions in both cycle time and energy consumption during the production of adhesives and sealants.



Omyabond 120 and 520 are designed to provide independence from ambient humidity, and provide reliable performance regardless of climatic conditions.

	Omyabond 120	Omyabond 520
Median particle size (d50%) [µm]	0.3	1.7
Water pick up at 85% RH [%]	0.06	0.03
Grade	Ultrafine	Standard

Careful selection of quality minerals, along with proprietary grinding and coating techniques, enables the production of ultra-fine, low-moisture ground calcium carbonates. These carbonates constitute the Omyabond Technology portfolio, which can facilitate savings in adhesive and sealant production while reducing the need for moisture-scavenging chemicals and enabling VTMO reduction.

Production and Sustainability Advantages

Energy savings from lower mixing temperatures

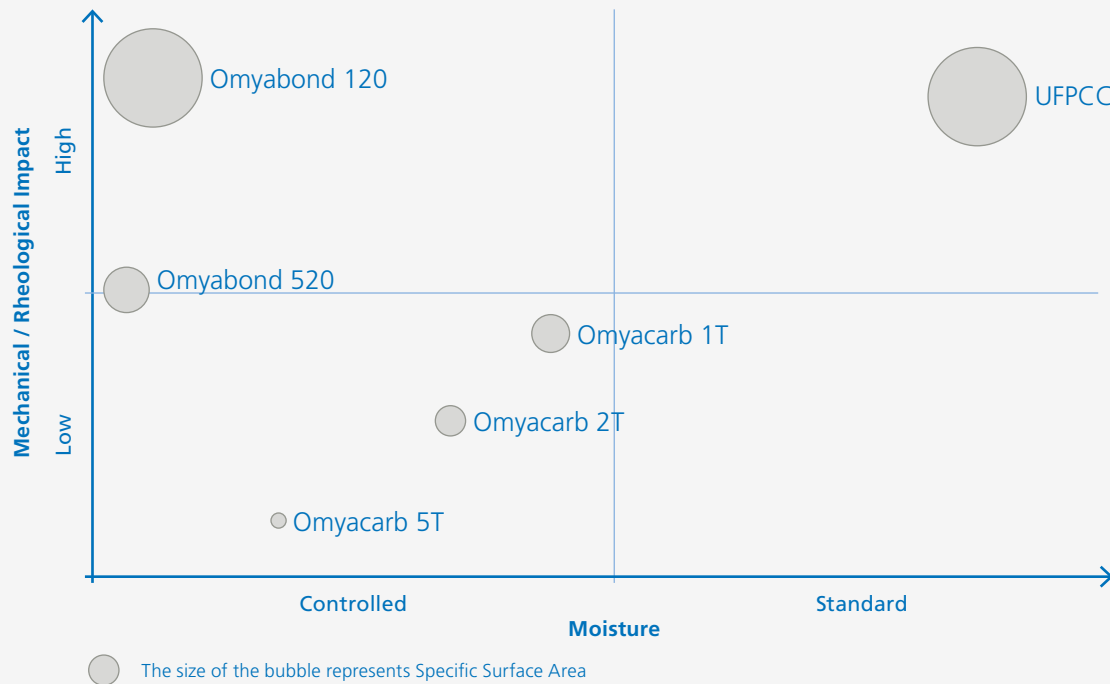
VTMO reduction due to the low moisture content of the filler

Increased capacity due to shorter cooling times

Simplified production through elimination of filler pre-drying

Consistent moisture content **even in high humidity regions**

Product Portfolio - Omyabond



SUSTAINABILITY

Omyabond 120 and Omyabond 520 address environmental concerns due to their very low moisture content:

- Energy can be saved by avoiding filler pre-drying and/or moving to low temperature mixing processes leading to increased capacity
- Enables chemical moisture scavenger reduction

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Omya International AG, Baslerstrasse 42, CH-4665 Oftringen, email: construction@omya.com

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