

Construction

# Omyabond® 120

Outstanding Performance  
Mineral for Reactive  
Adhesives & Sealants



THINKING OF TOMORROW



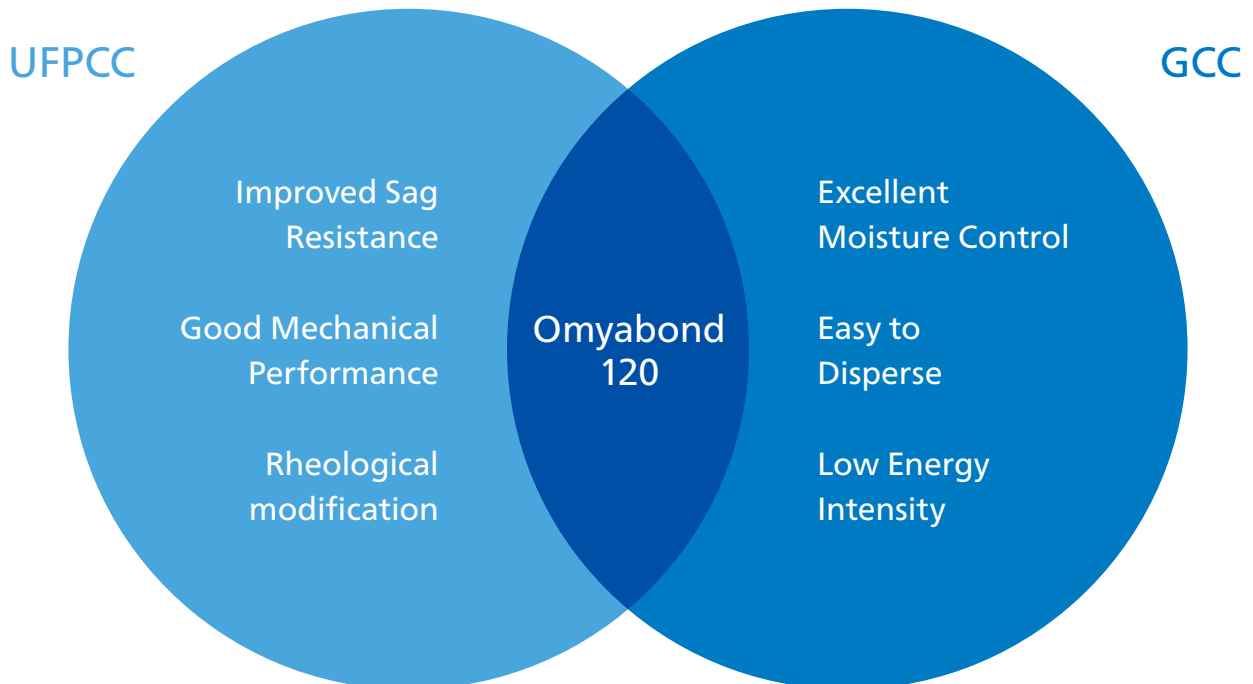
# Introduction

Moisture curing adhesives and sealants systems require careful moisture management during production and storage.

Omyabond 120 is a low moisture, treated calcium carbonate with a high surface area. While maintaining the low moisture content and water pick up of Omya's GCCs, the fine particle size

brings a superior rheological profile combined with reinforcing properties. Omyabond 120 is recommended for use in SMP (Silyl Modified Polymer) systems.

Omyabond 120 brings together the Benefits of Ground Calcium Carbonate (GCC) and Ultrafine Precipitated Calcium Carbonate (UFPCC)



# Performance Benefits of Omyabond 120

## Higher elongation, elastic recovery and good workability

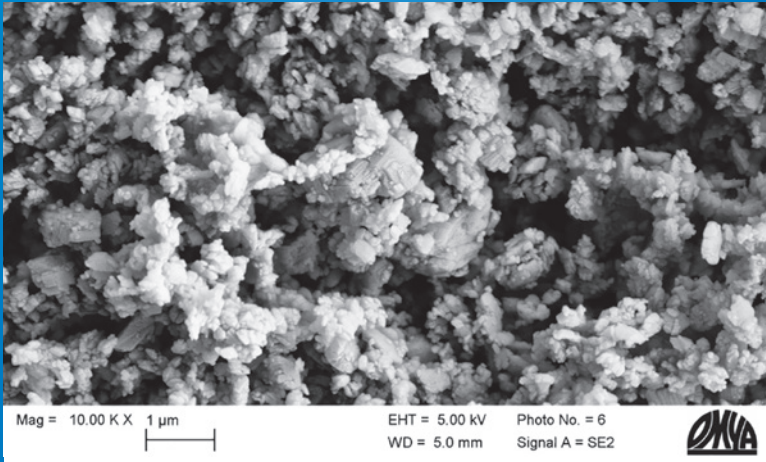
Omyabond 120 eliminates the need for conventional rheological modifiers such as polyamide waxes or fumed silica. Besides the strong rheological behaviour, the mechanical reinforcement provided by ultrafine calcium carbonate improves the overall sealant performance. This permits further optimization and total formulation savings through polymer reduction. Storage stability and workability of the sealant are good.

Omyabond 120 enables formulation of sealants that meet the relevant industry standards without impacting processing.

	PA Wax	Fumed Silica	Omyabond 120
SMP Polymer	25.9	25.9	25.9
Plasticizer	18.0	18.0	18.0
PA Wax	3.0	-	-
Fumed Silica	-	3.0	-
2 µm treated GCC	49.7	49.7	-
<b>Omyabond 120</b>	-	-	<b>52.7</b>
Additives (Moisture scavenger, stabilizer, catalyst)	3.4	3.4	3.4
<b>ISO 37</b>			
Modulus 100% [MPa]	0.7	0.5	0.5
Tensile strength [MPa]	1.5	1.7	2.0
Elongation at break [%]	540	660	990

### Key benefits

- ✓ Increased strength
- ✓ Improved elongation
- ✓ Simplified formulation



## Median particle size

(d50%, Omya GLS 041,  
Sedigraph) 0.3 μm

Specific Surface Area  
BET (Omya GLS 067) 14 m<sup>2</sup>/g

## Properties:

CIE L, (ISO 11664-4) > 94

Moisture ex works (ISO 787-2) 0.1%

Omyabond is a registered trademark of Omya AG in the European Union and multiple other countries.

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