



Omya

Calcium Carbonate
for Adhesives & Sealants



The Role of Calcium Carbonate in Adhesives & Sealants



Omya is a leading global producer of industrial minerals, mainly fillers and pigments derived from calcium carbonate and dolomite, and a worldwide distributor of specialty chemicals.

The company's major markets are forest products (fiber based products such as paper, board and tissue), polymers, building materials (paints, coatings, sealants, adhesives and construction) as well as life sciences (food, feed, pharmaceuticals, cosmetics, environment and agriculture).

Founded in 1884 in Switzerland, Omya now has a global presence extending to more than 150 locations in over 50 countries and 8,000 employees.

Reduces

Our calcium carbonates can reduce the content, and thus dependency of polymer based binder products in formulations. This reduces the carbon footprint (greenhouse gas emissions) of the overall package.

Replaces

Our calcium carbonates help to replace mineral fillers & pigments with high oil absorption, and carbon footprint (greenhouse gas emissions) and therefore reduce polymer based binders.

Resistant

Our calcium carbonates increase the resistance and durability of coating films, as well as adhesive & sealant joints, and thus the life cycle of the final products and goods.

Workability

Our calcium carbonates improve the workability of coatings, adhesives, sealants, inks, plasters and renders, leading to increased working life of application tools and less energy consumption.

Product Overview

	Particle Size	Products	Effect of CaCO ₃
Surface Treated	< 100 nm	UFPC:	Rheological/ Mechanical Modifier
	< 1 μm	Hydrocarb® 95 T Omyabond® 520 Omyacarb® 1T Omyacarb® 2T Omyacarb® 5T	Functional Filler
	~ 2 μm		
Untreated	5 μm	various types of: Omyacarb®	Extender
	< 100 μm		

The Right Grade for Your System



Physically Setting Systems and Cementitious Systems

Application	Filler level up to	Typical Carbonates
Paper and Packaging (aqueous)	30%	Omyacarb® 2 and Omyaflow® slurries
Solvent based systems	30%	Omyacarb® 1 / 2 / 5
Hot melts	30%	Omyacarb® 1 / 2 / 5
Tapes and PSAs	30%	Omyacarb® 5
Acrylic Sealants	60%	Omyacarb® 5
Flooring – emulsion based	60%	Omyacarb® 10 / 15 / 20
Tile adhesives – emulsion based	60%	Omyacarb® 5 / 10 / 15
Tile Adhesives – cementitious	60%	Omyacarb® 40

Chemically Curing, Reactive Systems (Flexible Adhesives & Sealants)

Application	Filler level up to	Omya GCC		UFPC grades
		Omyacarb® grades	Omyabond® 520	
Silicones	~50%	1T / 2T / 5T		✓
SMP	~50%	1T / 2T / 5T	Possibility of Low Temperature Production process	✓
SMP Parquet	~60%	1T or Hydrocarb® 95 T		✓
Polyurethane	~50%	1T / 2T / 5T		✓
2c- Polysulfide	~60%	1T / 2T recommended		✓



Natural Products for Sustainability

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