

SERVING CUSTOMERS WITH INNOVATIVE SOLUTIONS

CUSTOMER-DRIVEN IMERYS WORKS ACTIVELY WITH CUSTOMERS TO DEVELOP NEW AND INNOVATIVE SOLUTIONS TO SOLVE THEIR TECHNICAL CHALLENGES. AS A GLOBAL LEADER IN WHITE MINERALS, IMERYS BRINGS ITS UNIQUE KNOWLEDGE, TECHNOLOGY AND UNRIVALED DEPTH OF APPLICATION EXPERTISE TO IMPROVE THE VALUE OF OUR CUSTOMERS' PRODUCTS.

NEW PRODUCT DEVELOPMENT IMERYS IS CONTINUOUSLY CREATING NEW AND BETTER WAYS TO TRANSFORM MINERAL RESOURCES INTO HIGH-PERFORMANCE, SOLUTION-DRIVEN PRODUCTS.

ENVIRONMENTAL POLICY IMERYS IS COMMITTED TO BEING A GOOD NEIGHBOR TO OUR ENVIRONMENT AND WE TAKE THIS RESPONSIBILITY VERY SERIOUSLY. WE HAVE ADOPTED THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT, WHICH INCLUDES EXTENSIVE TRAINING PROGRAMS AND CONSIDERABLE INVESTMENT IN ENVIRONMENTAL PERFORMANCE IMPROVEMENT.



IMERYS is the world's largest producer of white industrial minerals. Our approach can be regional, national or global, depending on the market. We are constantly developing better ways to turn mineral resources into high performance minerals.

▶ IMERYS has a proven 50+ year history of close technical collaboration that has led to an in-depth understanding of the mineral requirements for adhesive, caulk and sealant applications.

▶ IMERYS' product portfolio is unequalled in its breadth and encompasses a full range from economical extenders to highly functional surface treated additives.

▶ IMERYS has the capability to supply on a worldwide scale, with production units around the globe, including major sites in the USA, Brazil, Mexico and Europe.

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ADHESIVE, CAULK and SEALANT APPLICATIONS

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**THE WORLD'S LARGEST
SUPPLIER OF WHITE
INDUSTRIAL MINERALS**



PRODUCT & APPLICATION | OVERVIEW



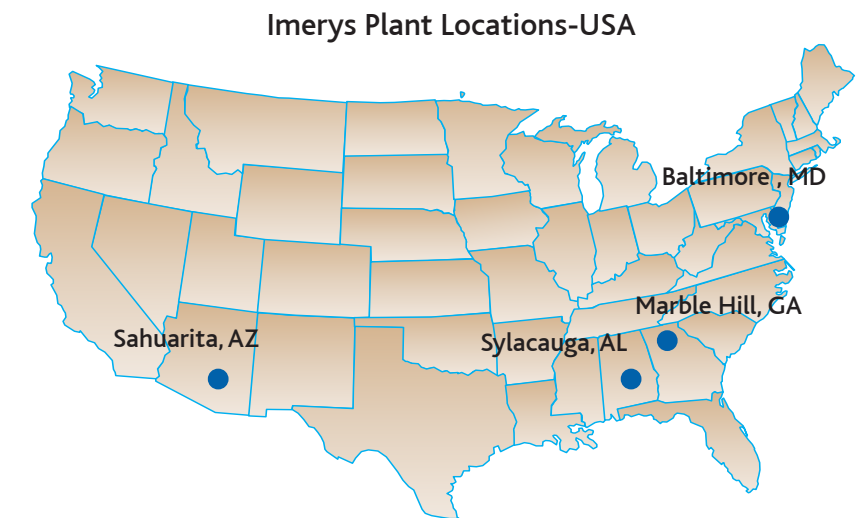
FUNCTIONAL PRODUCTS IN MULTIPLE LOCATIONS ACROSS NORTH AMERICA

Natural Calcium Carbonate - in the form of marble, limestone and chalk - occurs all over the globe. **IMERYS** produces a wide range of products from high quality reserves in many locations. A complete particle size spectrum of ground calcium carbonate (GCC) products is available, from as coarse as 3,000 microns all the way down to less than 1 micron. This range, unparalleled in the minerals industry, allows us to provide products to every sector of adhesive, caulk and sealant applications.

	Untreated Calcium Carbonate														Treated Calcium Carbonate						
	#8 White™	CC-103®	Micro-White® 100	GSP-30™	CP Filler®	#10 White™	Duramite®	Gama-Sperse® 255	Drikalite®	CalWhite®	Atomite®	Camel-White®	Gamaco®	Gama-Sperse® 80	Camel-Fine™	Kotamite®	Camel-White® ST	Gama-Sperse® CS-11	Camel-Fine™ ST	ImerSeal™ 75	
KEY																					
● Recommended																					
● Can be used																					
Typical Properties	Mean Particle Size (~ microns)	25	25	20	20	20	12	12	11	8.0	6.0	3.0	3.0	3.0	2.5	1.75	3.0	3.0	3.0	1.75	1.6
	Brightness (GE)	91	87	92	87	87	93	92	92	93	94	96	95	95	96	96	96	96	93	96	96
	Typical +325 mesh residue (%)	20	20	8	8	8	0.8	0.1	0.03	0.5	0.03	0.003	0.002	0.005	0.005	0.003	0.003	0.003	0.005	0.003	.003
	pH	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	--	--	--	--	--
Adhesive Applications	PVA/Starch/Dextrin in Packaging			●			●	●	●	●	●	●	●	●	●	●					
	PVA Construction			●			●	●	●	●	●	●	●	●	●	●					
	Hot Melts			●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Elastomers, Tile			●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Elastomers, Footwear & Textiles			●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PVC			●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Caulk and Sealant Applications	Silicones						●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Urethanes						●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Joint Compounds	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●					
	Acrylics			●	●	●	●	●	●	●	●	●	●	●	●	●					
	Polysulfide, Construction						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Urethanes						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Silicones						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Hybrid Polymer						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Automotive Putties			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Hot Melts						●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
PVC Plastics	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Butyls Tapes			●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Putties & Mastics	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

Product Spotlight

Gama-Sperse® CS-11 is a finely-ground, surface-treated white calcitic marble that has been specifically designed for use in sealant and adhesive applications. It is engineered to have extremely low concentrations of unreacted (or free) stearic acid associated with the finished product. Excess stearic acid has been found in certain sensitive systems to have an adverse effect on the properties of an adhesive/sealant formulation.



FEATURES	BENEFITS
Brightness: Although all Imerys ground calcium carbonates for ACS are white, there is a range that varies depending upon the stone source and processing.	Provides whiteness and opacity to the finished ACS product.
Low Surface Area: The rhombohedral crystalline structure of ground calcium carbonate allows for lower oil absorption values to be obtained versus many other minerals with comparable particle size.	Enables higher loadings, viscosity, body and low moisture content.
Particle Size Distribution Ranges: Imerys provides a wide selection of ground calcium carbonates to meet the requirements of many ACS formulations.	Results in many opportunities to meet the desired loading, viscosity, body, whiteness and cost savings in end-product formulations.
Surface Treatment: Hydrophobicity improves with the addition of a stearate treatment to the ground calcium carbonate.	Provides a product that disperses easier in many polymer systems. Very low moisture levels are of interest in ACS systems that are moisture cured.

Please note that the properties quoted within this document are typical properties and do not constitute a specification.