

Omyasphere® 900 series

For Polyurethane, Silyl Modified Polymers,
and Silicone Adhesives & Sealants

Improve Lightweighting Properties with Omyasphere 900 Series – Hollow Glass Microspheres

Omyasphere 900 series are lightweight fillers engineered for the construction industry derived from soda lime borosilicate glass. They are spherical and hermetic microspheres with low density, high compressive strength and high brightness that provide functional properties to your adhesive and sealant formulations.

Application

When compared to a formulation without lightweight filler, the introduction of hollow glass microspheres can increase yield while maintaining tensile strength. Additionally, the low density of Omyasphere 900 leads to safer handling and easier application of the final product as well as tangible savings in the transportation phase, reducing the carbon footprint of the final product.



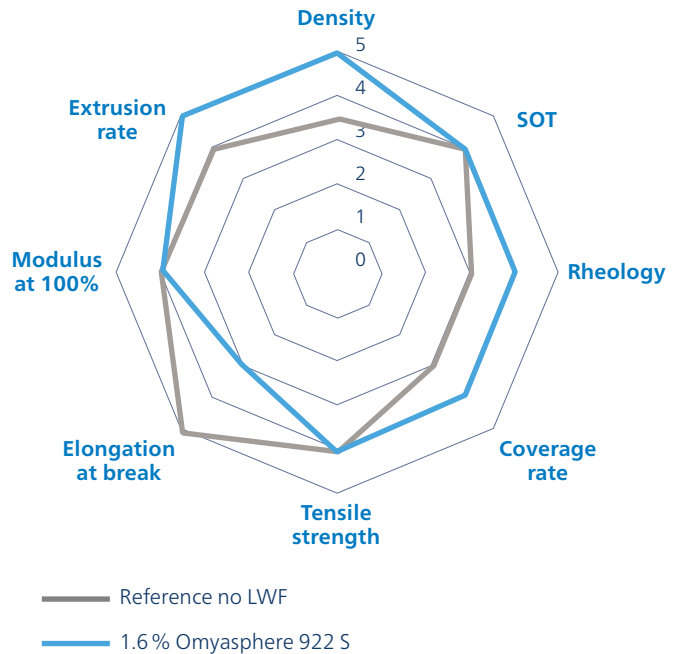
Benefits

- ✓ Density reduction
- ✓ Higher coverage
- ✓ Reduced weight
- ✓ Application easiness
- ✓ Enhanced rheology
- ✓ Transportation savings

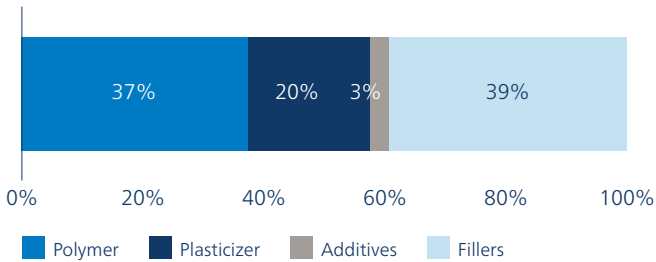
Case Study

Introducing 1.6% Omyasphere 922 S into parquet adhesives leads to maintained tensile strength and modulus with enhanced rheological performance, compared to a reference adhesive without lightweight filler.

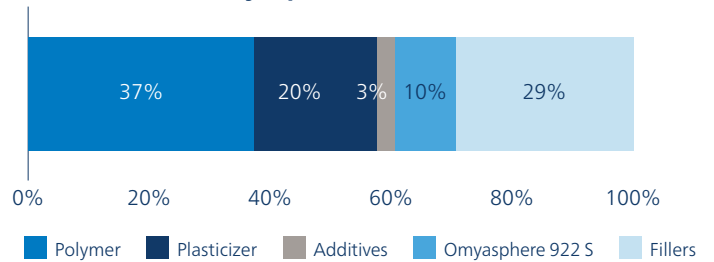
SMP Parquet Adhesive	% by weight	% by weight
Polymer	22.4	26.2
Plasticizer	12.0	14.0
Omyacarb 1T	20.0	4.8
Omyabond 420	43.7	51.1
Omyasphere 922 S	-	1.6
Adhesion promoter	0.4	0.5
Moisture scavenger	1.0	1.2
Catalyst	0.5	0.6
Total	100	100
Density [g/cm³]	1.6	1.4



Volume (%) - Reference



Volume (%) - Omyasphere 922 S



Omyasphere is a registered trademark of Omya AG in multiple countries.



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