

Omyasphere[®] 900 series

For polyester putty



Improve lightweighting and performance 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 putty formulation.

Application

When compared to a formulation without lightweight filler, the introduction of hollow glass microspheres can increase yield and improve workability. 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.



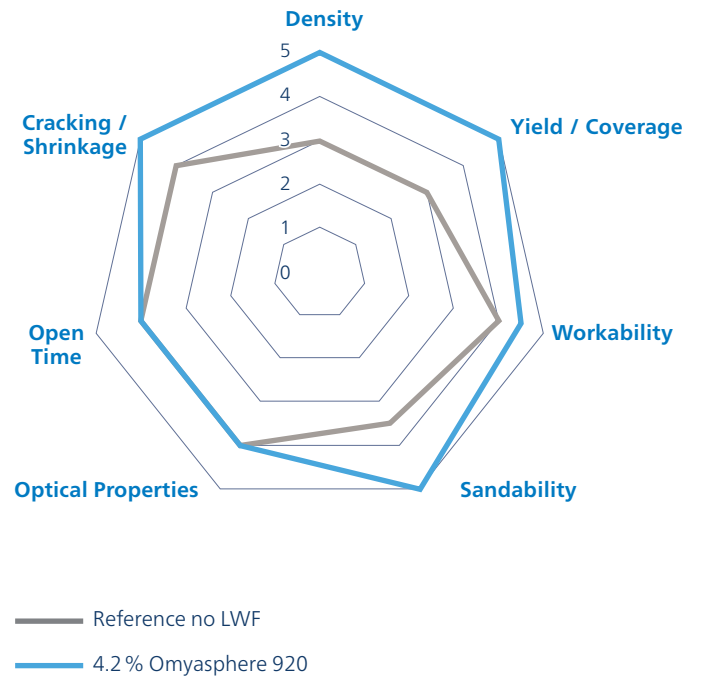
Benefits

- ✓ Density reduction
- ✓ Improved sandability
- ✓ Higher yield
- ✓ Transportation savings
- ✓ Application easiness
- ✓ Reduced cracking

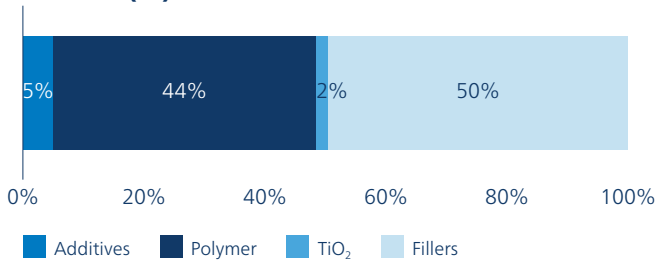
Case Study

Introducing 4.2% Omyasphere 920 into polyester putties leads to an increased yield, improved sandability, and dimensional stability, compared to a reference putty without LWF.

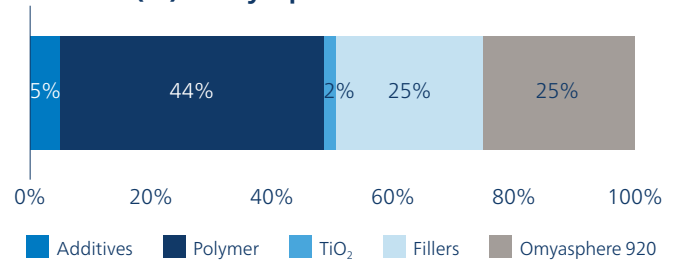
Polyester putty	Part by weight (%)	Part by weight (%)
Polyester resin	27.7	41.7
Fumed silica	0.3	0.4
Dispersing agent	0.2	0.3
Solvent	1.4	2.1
TiO ₂	1.9	2.9
Talc	14.7	22.2
Omyasphere 920	-	4.2
Omyacarb 10	45.7	14.0
Rheological additive	0.5	0.7
BaSO ₄	7.0	10.6
Solvent	0.6	0.9
Total	100	100
Density [g/cm³]	1.5	1.2



Volume (%) - Reference



Volume (%) - Omyasphere 920



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

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