

**Description:**

Pantheon™ is a pozzolan made from recycled glass and other pozzolanic materials. Pantheon™ is designed to improve the performance, durability, and the carbon footprint of the concrete it is used in. Its high concentration of pozzolanic materials and small particle size makes it highly reactive in concrete and mortar mixes.

**Uses and applications:**

Pantheon™ is a pozzolan that improves the structural properties of cement pastes, mortar and concrete. Pantheon™ can be used in projects where high strength and durability are needed, such as:

- Pavements
- Foundations
- Precast Applications
- Concrete exposed to chloride and sulfate attack

Properties	ASTM C-1866	Pantheon™
SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub> + Fe <sub>2</sub> O <sub>3</sub>	>60%	>72%
SO <sub>3</sub>	<1%	<0.3%
Moisture	<0.5%	<0.2%
Loss on ignition	<0.5%	<0.4%
Amorphous Content	>95%	>99%
Percent under 45 µm	>95%	95%
Density (g/cm <sup>3</sup> )	Reported Only	2.43 ± 2%
Required water (% of control)	Reported Only	100% ± 2%
Strength Index (7 Day)	>75%	>82%
Strength Index (28 Day)	>85%	>92%

**Sustainability**

Pantheon™ can help provide up to 12 LEED points for its recycled material content, local manufacturing, and much more! The manufacturing of Pantheon™ produces less than 2% of the CO<sub>2</sub> compared to portland cement.

**Advantages:**

In concrete mixes, Pantheon™ has the following advantages:

- Increased compressive strength
- Improved workability
- Reduced permeability
- Reduced water requirement
- Increased resistance to corrosive materials
- Mitigated alkali-silica reaction (ASR)
- Makes the concrete whiter in color
- LEED Benefits (up to 12 points)

**Recommendations for use:**

Use up to a 30% replacement for cement, or add up to 30% for high-strength mixes. The optimal amount of Pantheon™ can be determined based on individual requirements. For best results, the use of water reducing additives in the concrete or mortar is advised.

**Recommended transport:**

50 lb Bags: Remove nails or materials that may damage the bags from the platform. When using a forklift observe that the blades do not harm the pallets nor the bags.

Bulk: Clean silo prior to filling with Pantheon™. Do not expose to moisture during transportation, do not expose to wind or the elements.

**Recommended storage:**

50 lb Bags: Cover the bags, store them in dry places and avoid long storage periods (more than 6 months.) Place the bags on pallets or clean, flat surfaces. Avoid nails or broken pallets or platforms. Use the bags that have been in storage the longest.

Bulk: In silos, agitate and fluff as necessary to improve feeding. Do not mix with any other materials prior to use.

**Precautions:**

Pantheon™ contains materials that can cause throat, eyes and skin irritation. The use of the appropriate glasses, gloves and mask is advised. Avoid dust formation and direct contact. Refer to the SDS for more information.

**Further Information**

If you have questions or are interested in purchasing Pantheon™, please contact KLaw Industries.

**Email: [Jack@KLawIndustries.com](mailto:Jack@KLawIndustries.com)**

**Website: [www.KLawIndustries.com](http://www.KLawIndustries.com)**