

**Technical Data Sheet:**

**R-E-D Ground Glass Pozzolan**



**R-E-D Ground Glass Pozzolan Re-Act 4™** is a fine, off-white, amorphous, glass powder made from 100% recycled glass with excellent pozzolanic properties and a similar water demand to ordinary Portland cement. Through a patented recycled glass sorting and cleaning process along with our state-of-the-art manufacturing, we have created an environmentally safe and sustainable supplementary cementitious material (SCM) suitable for many applications.

**Applications:** Ready Mix Concrete (silica fume replacement), Precast, HPC & UHPC, decorative concrete and architectural products requiring white siliceous (non-crystalline) materials.

**Packaging:** Bulk tanker, super-sacks.

**Storage:** Dry storage. Avoid contact with moisture. Maintain seal.

**Safety:** **R-E-D Re-Act 4™** is amorphous. Safety data sheet available upon request.

**Environmental:** Lower your global warming potential (1 ton cement replaced = ~ 1 ton CO<sub>2</sub> removed). EPD available upon request.

**Quality Control:** Complies with ASTM C1866, CSA A3001-23, ISO 14001:2004, OHSAS 18001:2007, R2:2013.



**Physical and Chemical Characteristics**

ANALYSIS	Limits		
	TYPICAL	MIN	MAX
SiO <sub>2</sub> (%)	71.0	70.0 (60.0) <sup>1</sup>	-
Fe <sub>2</sub> O <sub>3</sub> (%)	0.5	-	-(1) <sup>1</sup>
Al <sub>2</sub> O <sub>3</sub> (%)	2.0	-	-(5) <sup>1</sup>
CaO (%)	10.0	-	15.0
NaEq (%)	13.0	4 (-) <sup>1</sup>	15.0
>45 μ (%)	0.0	-	5.0
SO <sub>3</sub> (%)	0.2	-	1.0
LOI (%)	0.3	-	0.5
Strength Index 28 Day (%)	115	85	-
Strength Index 7 Day (%)	90	75	-
Brightness (L*)	92	-	-
Water Demand (%)	99.0	-	-

<sup>1</sup> Limits with two values indicates different specifications between CSA (ASTM). Limits with one value indicates CSA (ASTM) match.



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Users must ensure that this material is suitable for their specific application despite reasonable care taken in its preparation. It is not recommended that substitutions be made without batch trialing, as this helps ensure that mixes are consistent with their intended use.