

Technical Data Sheet:

R-E-D Ground Glass Pozzolan (Slag Replacement)



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

Applications: Ready Mix Concrete (GGBFS/Slag, Fly Ash, OPC & white cement replacement), Precast concrete, HPC & UHPC.

Packaging: Bulk tanker, super-sacks.

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

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

Environmental: Lower your global warming potential (1 ton cement replaced = ~ 1 ton CO₂ 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 ₂ (%)	71.0	70.0 (60.0) ¹	-
Fe ₂ O ₃ (%)	0.5	-	-(1) ¹
Al ₂ O ₃ (%)	1.0	-	-(5) ¹
CaO (%)	10.0	-	15.0
NaEq (%)	13.0	4.0 (-) ¹	15.0
>45 μ (%)	0	-	5.0
SO ₃ (%)	0.2	-	1.0
LOI (%)	0.4	-	0.5
Strength Index 28 Day (%)	100	85	-
Strength Index 7 Day (%)	80	75	-
Brightness (L*)	92	-	-
Water Demand (%)	99.0	-	-

¹ 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.