



# Oreworld trade (Tangshan) co., Ltd.

## CSA cement

### CSA cement introduction

CSA cement is a special cement used in many applications where early high strength and fast setting development are necessary. CSA cement is short for Calcium Sulfoaluminate Cement, also named [calcium sulphoaluminate cement](#), rapid setting cement, high strength cement, fast hardening cement, CSA type III and CSA binder.

### CSA cement Characteristics

- Appearance: light grey powder
- Early-high strength
- Rapid setting: initial setting time can reach 12~20 minutes
- Tiny expansion and low shrinkage
- Low degree of shrinkage
- Low alkali: PH value is about 11 and lower than Portland cement.
- No rust to steel
- Freeze-thaw resistance
- Impermeability
- Resistance to sulfate attack
- Low carbon footprint

### CSA cement Technical data

Fineness	Specific surface area, m <sup>2</sup> /kg		500+/-20	
	Initial setting	min	12-30	
Setting time	Final setting	min	20-50	
	Grade	CSA42.5	CSA62.5	CSA72.5
Compressive strength, Mpa	1 day	30	50	55
	3 days	42.5	62.5	72.5
Flexure Strength, Mpa	1 day	6.0	7.0	7.5
	3 days	6.5	7.5	8.0

### CSA cement Application

- Concretes repair (for example bridges, airport runways and parking apron, etc.)
- Technical Rapid-Setting Mortars (for example restoration and repairs, etc.)
- Self-Leveling Floor Screeds
- Sprayed Concretes and Shotconcretes
- Mining Products, for example: mining roof support materials.
- Plasters & Mortars (i.e. Joints, Sulfate Resistance, No-Shrinkage, etc.)
- Special adhesives, tile adhesives
- Concrete Precast Products



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- Glass fiber reinforced concrete (G.R.C.)

CSA cement Storage, transportation and packing

- To be stored in dry cool place and not mix with other substance
- Transportation: as common goods
- Packing: jumbo bag or small bag with pallets