

ZC-2 Cement Set Accelerator Tech Information

GENERAL

Product Name	ZC-2 Cement Set Accelerator
Application	Set accelerator for most type of cement products, concretes and ready-mix for shotcreting
Manufacturer	New Shao Cement Plant, China
Supplier	Leedem Mine Services

CHEMICAL INGREDIENT

Product contains these six inorganic ingredients only: SiO_2 , Al_2O_3 , CaO , Fe_2O_3 , MgO , and Na_2O .

PHYSICAL & CHEMICAL DATA

Physical state	Solid, light gray powder, odorless
Fineness	Amount of over sized particles $\leq 12\%$ by 0.08 mm standard sieve
pH value	11.5 – 11.9
Specific gravity	2.25
Moisture	$\leq 1.5\%$
Chemical stability	Stable

TECHNICAL SPECIFICATIONS

Dosage	0.5 – 1.0 % of cement weight in shotcrete or concrete
Initial setting time	1 – 3 min. at $20 \pm 3^\circ\text{C}$
Final setting time	3 – 6 min. at $20 \pm 3^\circ\text{C}$
28-day compressive strength	$\geq 90\%$ of the strength of concrete without this set accelerator
Rebound rate	Depends to local condition and operators' technique.
Theoretic shelf life	Over 12 months while stored in dry and clean environment

PACKAGE

Woven bag with plastic lining	25 kg per bag
Wooden skid	one metric ton or 40 bags per skid
Ton bag	on customers' request

TOXICOLOGICAL PROPERTIES

ZC-2 Product is non-toxic to humans. It does not cause corrosive damages to steel reinforcement.

Note: above data is based on information provided by Manufacturer's agent.