

TECHNICAL DATA SHEET

CEM SPEED ADMIX



DESCRIPTION



Cem Speed Admix is a liquid admixture that accelerates the setting time of mortar, non-reinforced concrete, renders, screeds and pavings.

BENEFITS

- Multi-faceted product
- Reduces Setting Time
- Increased Early Strength
- Minimizes waiting times on finishing operations
- Reduces strike times in production
- Increases productivity
- Optimizes mould usage
- Economical in use

TYPICAL USES

For use in the acceleration of screeds and paving where a reduction in set time is required; also suitable for use as an accelerator in non-reinforced concrete, as a super rapid hardener for plugging of leaks in concrete. Harris Cem Speed Admix can also be used as an aid to cold weather working.

DIRECTIONS FOR USE

AS AN ACCELERATOR:

Pre-mix Harris Cem Speed Admix with gauging water; check amount of water to be used in the mix, sand grading and condition. The table below gives indicative dosage rates relative to cement and water addition rates:

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Mixing proportion to cement used	Concrete/Cement/Mortar:	5 litres (1.5 gallons) Harris Cem Speed Admix per 100kg (220lbs) of cement
Mixing proportion to gauging water	*Concrete	5 litre (1.5 gallons) Harris Cem Speed Admix to 40 litres (10 gallons) mixing water
	Cement Mortar:	2.5 litres (0.75 gallon) Harris Cem Speed Admix to 35 litres (9 gallons) water
Amount of Harris Cem Speed Admix per cubic metre (1.3 cubic yard) of concrete/mortar	Concrete:	11.25 litres (3 gallons)
	Cement Mortar:	10 litres (2.75 gallons)

*Note: Based on commonly used mixes having a fairly high slump with approximately 100 litres (26 gallons) of mixing water used per cubic metre (1.3 cubic yard) of concrete, (the 100 litres (26 gallons) includes the added Harris Cem Speed Admix).

AS A FLOOR HARDENER:

Incorporate Harris Cem Speed Admix with gauging water at a rate equivalent to 2.5 to 5 litres (0.75 to 1.5 gallons) of Harris Cem Speed Admix per 50 Kgs (110 lbs) of cement used. The concrete should not be gauged weaker than 1:2:4. If granolithic topping should be appropriate then a specification of 2 parts 3-6 mm (1/8 – 1/4 inch) clean grano (no dust) to ½ part concreting sand to 1 part cement. For selection of relevant mix designs and installation techniques refer to BS 8000 Part 9 and BS 8204 Part 2.

NB: Many of the benefits to be gained from the use of Harris Cem Speed Admix as a hardener can be negated by bad practice and placement techniques. Refer to relevant BS document for guidance on placement, curing etc.

AS A SUPER RAPID HARDENER:

Harris Cem Speed Admix may be mixed neat with fresh Ordinary Portland Cement in small quantities for use immediately as a plugging compound.

PROPERTIES

Active Base:	Calcium Chloride Solution 20-30% active
Chloride ion content:	0.8% w/w cement at addition rate of 2.5 litres (0.75 gallon) per 50kg (110 lbs) cement
S.G:	1.2
Dosage (as frost proofer):	Ambient temperatures down to -4°C: 2.5 litres (0.75 gallon) per 50kg (110 lbs) cement

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Ambient temperatures down to -8°C: 5 litres (1.5 gallons) per 50kg (110 lbs) cement

USE	MIX DESIGN	ADDITION RATE/50KG (110 lbs) CEMENT	SETTING TIME (APPROX)
Plugging aid	Neat fresh OPC	-	2-3 mins
Concrete	1:2:4	2.5 litres (0.75 gallon) 5 litres (1.5 gallons)	7 hours 2.5 hours
Floor screeds	1:3	2.5 litres (0.75 gallon) 5 litres (1.5 gallons)	6 hours 2 hours

PACKAGING SIZES

Gallon (3.785 Litres) and Five Gallon (18.92 Litres)

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN
WEAR PROTECTIVE CLOTHING

Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. There may be irritation and redness at the site of contact.
Eye contact	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Ingestion	Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre (one pint) of water to drink immediately. Consult a doctor. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Inhalation	Remove casualty from exposure ensuring one's own safety whilst doing so. No symptoms

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Storage: Protect from temperature extremes. Will freeze but can be reconstituted by stirring after thawing.

Shelf Life: Minimum two years when stored in accordance with the manufacturer's instructions.

TECHNICAL ASSISTANCE

For advice and recommendation on the use of all Harris/BH Paints and Building Products, consult the Harris Technical Department, Tel: (246) 429-4840.

Email: technical@harrispaintsonline.com