



MORE THAN CONCRETE



ACCELERSET

ACCELERATING & DENSIFYING ADMIXTURE FOR PORTLAND CEMENT MIXES

AVAILABLE SIZES: 1L | 5L | 20L



HIGH EARLY STRENGTH



SCAN FOR DETAILS

DESCRIPTION:

CEMIX® ACCELERSET is a calcium chloride based accelerator used with Portland Cement mortars, renders and concrete where acceleration of the set and high early strength development is required.

TYPICAL APPLICATION/USES:

CEMIX ACCELERSET is ideal for use when concrete has to be laid when limited time is available for the completion of the work. The addition of Cemix Accelerset to Portland Cement mixes speeds up the rate at which the mix sets and hardens, gives a high early strength development and increases the density of the mix. These improvements in performance mean that formwork may be stripped earlier than normal. The use of CEMIX ACCELERSET improves the abrasion resistance of concrete mixes, makes them less porous and reduces the danger of surface dusting. Portland Cement mixes containing CEMIX ACCELERSET may be used for:

- Cold weather concreting
- Industrial flooring
- Machine bases and pits
- Sea defence work
- Road repairs
- Precast work giving faster mould turn around. Earlier stacking reduces storage space

ADVANTAGES:

- Accelerates setting time of Portland cement mixes
- Speeds the hardening rate of Portland cement mixes
- Increases the density of Portland Cement Mixes
- Makes concrete less porous
- Gives high early strength
- Improves abrasion resistance
- Reduces dusting

MIXING:

Thoroughly agitate contents before use. Dry mix all cement and aggregates. Add the required amount of Accelerset to the mixing water and stir thoroughly. (2 litres Accelerset to 18 litres of water per 40kg of Portland Cement per mix, maximum dosage for normal work.) Add the solution to dry cement/aggregates and mix in usual manner. The following tables show the changes in performance characteristics when Accelerset is used.

TABLE ONE:

EFFECT OF ACCELERSET ON SETTING TIMES OF PORTLAND CEMENT AT 70°C (210C) AS DETERMINED WITH VICAT NEEDLE.

ACCELER-SET L/40KG BAG OF CEMENT	INITIAL SET IN HOURS	FINAL SET IN HOURS	REDUCTION IN SET TIME INITIAL	REDUCTION IN SET TIME FINAL
0	3	5 1/2	-	-
1	2	4	33%	27%
2	1 1/4	2 3/4	58%	50%
3	3/4	1 3/4	75%	68%
4	1/4	1	92%	82%



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TABLE TWO:

ACCELERSET LITRES/BAG OF CEMENT	PERCENTAGE INCREASE IN COMPRESSIVE STRENGTH				
	1 DAY	3 DAYS	7 DAYS	28 DAYS	90 DAYS
1	57	22	14	6	3
2	114	41	25	13	6
3	157	52	35	17	8
4	185	59	42	20	9

TABLE THREE:

EFFECT OF TEMPERATURE ON COMPRESSIVE STRENGTH USING TWO LITRES OF ACCELERSET PER 40KG BAG OF CEMENT IN A 1:2:4 CONCRETE

TEMPERATURE F	TEMPERATURE C	INCREASE IN COMPRESSIVE STRENGTH			
		1 DAY	3 DAYS	7 DAYS	28 DAYS
32	0	260%	222%	86%	15%
40	4.4	210%	180%	32%	8%
50	10.0	184%	130%	25%	9%
60	15.6	164%	86%	25%	9%
70	21.1	148%	50%	30%	10%

APPLICATION:

Portland cement mixes containing Accelerset are applied by normal methods. The timing of each operation will be faster using Accelerset and work should be planned accordingly.

DOSAGE RATE:

Use Cemix Accelerset at the rate of 25ml - 50ml per 1 kg of cement. Normal dosage is 1 - 2litres per 40kg bag of Portland cement although up to 4 litres per 40kg bag of cement may be used if very fast setting times are needed. Please obtain technical advice before using larger dosage.

CURING:

Adequate curing of Portland cement mixes is absolutely essential, to prevent cracking and crazing of finished surfaces. The curing operation should commence as soon as possible after final trowelling, but no later than 6 - 8 hours after finishing. A wet curing operation should be continued for 24 hours to ensure that good results are obtained.

STORAGE & SHELF LIFE:

CEMIX ACCELERSET has a shelf life of 12 months minimum when unopened in original containers.

CLEANING:

Clean all tools with water & brush immediately after use.

AGITATION:

Thoroughly agitate before use.

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

WARNING



HAZARD STATEMENT(S):

- Harmful if swallowed
- Causes skin irritation
- Causes serious eye irritation
- Toxic to aquatic life
- May cause long lasting harmful effects to aquatic life
- Harmful to terrestrial vertebrates

SAFETY INSTRUCTIONS:

- Do not eat, drink or smoke when using this product
- Avoid release to the environment
- Wear protective gloves/protective clothing/eye protection/face protection



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INGREDIENTS:

Calcium chloride, CAS: 10043-52-4, 40-45%
Nonylphenol, ethoxylated, CAS: 9016-45-9, 1-1.5%
Polyethylene glycol, proprietary, CAS: NA, Not specified
Water, CAS: 7732-18-5, <70%

DISPOSAL:

Dispose of contents/container in accordance with local regulations

DISCLAIMER:

Please Note: Recommendations and advice regarding the use of this product are to be taken as a guide only. Other than as appears on this product's packaging, CEMIX® PRODUCTS LTD does not give any warranty express or implied as to its suitability for any particular use. For all advice concerning the use of, or suitability of this product for a particular application please contact CEMIX® PRODUCTS LTD. If this product is defective, please contact the merchant the material was purchased from or CEMIX® PRODUCTS LTD who will refund or replace it in accordance with the requirements of the Consumer Guarantees Act.

SCAN QR CODE FOR MORE PRODUCT INFORMATION.



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