

**APPLICATION GUIDELINES****PREPARATION AND MIXING**

Dosage: SUPERSHIELD ADMIX 300 1% of cement by weight.

Note: Under certain conditions the dosage rate may be up to 2% depending on the type of concrete required.

SUPERSHIELD ADMIX 300 must be added to the concrete at the time of batching. The sequence of procedures for addition will vary according to the type of batch plant operation and equipment:

READY MIX PLANT - DRY BATCH OPERATION

Add SUPERSHIELD ADMIX 300 in powder form to the drum of the ready-mix truck. Drive the ready mix truck under the batch plant and add the balance of the materials in accordance with standard concrete batching practices. Mix materials for a minimum of 5 minutes to ensure that the SUPERSHIELD ADMIX 300 has been thoroughly dispersed throughout the concrete.

READY MIX PLANT - CENTRAL MIX OPERATION

Mix SUPERSHIELD ADMIX 300 with water to form a very thin slurry (e.g. 15 - 20 lb./6.75 - 9 kg of powder mixed with 3 gallons/ 13.6 litres of water). Pour the required amount of material into the drum of the ready-mix truck. The aggregate, cement and water should be batched and mixed in the plant in accordance with standard practices (taking into account the quantity of water that has already been placed in the ready-mix truck). Pour the concrete into the truck and mix for at least 5 minutes to ensure even distribution of the SUPERSHIELD ADMIX 300 throughout the concrete.

READY MIX TRUCK - AT THE JOB SITE

SUPERSHIELD ADMIX 300 can be added into the ready mix truck as a final ingredient at the job site in two different forms (i.e. one as a dry powder and another as a thin slurry).

Dry Powder: Add the right amount of SUPERSHIELD ADMIX 300 to the drum of the RMC truck slowly, while it is in the mixing mode and mix it for at least 10 minutes to ensure even distribution of the SUPERSHIELD ADMIX 300 throughout the concrete.

Thin Slurry: Mix SUPERSHIELD ADMIX 300 with water to form a very thin slurry (e.g 1 part of water with 2 parts of powder approximately 1 litre of water would be added extra for a cubic meter of concrete. The water content in the slurry can be reduced if required). Pour the slurry into the truck while the truck is in mixing mode and mix it for at least 5 minutes to ensure even distribution of the SUPERSHIELD ADMIX 300 throughout the concrete.

PRECAST BATCH PLANT

Add SUPERSHIELD ADMIX 300 to the rock and sand, then mix thoroughly for 2 - 3 minutes before adding cement and water. The total concrete mass should be blended using standard practices.

Notes:

1. It is important to obtain a homogeneous mixture of SUPERSHIELD ADMIX 300 with the concrete. Therefore, do not add dry Admix powder directly to wet concrete as this may cause clumping and thorough dispersion will not occur.



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2. Concrete containing the SUPERSHIELD ADMIX 300 does not preclude the requirement for design of crack control, construction joint detailing and measures for repairing defects in concrete (i.e. honeycombing, tie holes, cracks beyond specified limits).

SETTING TIME AND STRENGTH

The setting time of the concrete is affected by the chemical and physical composition of ingredients, temperature of the concrete and climatic conditions. SUPERSHIELD ADMIX 300 is specifically designed for projects where extended retardation is required, the amount of retardation will depend upon the concrete mix design and the dosage rate of admix. Concrete containing SUPERSHIELD ADMIX 300 may develop higher ultimate strength than plain concrete. Trial mixes should be carried out under project conditions to determine setting time and strength of the concrete.

LIMITATIONS

When incorporating SUPERSHIELD ADMIX 300, the temperature of the concrete mix should be above 40°F (4°C).

HEALTH AND SAFETY

SUPERSHIELD ADMIX 300 contains chemicals, which may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during handling of this product. If product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms prolong.

STORAGE

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

PACKAGING

Available in 25 kg (55.1 lb) Pails and 25 kg (55.1 lb) PE-lined paper bags.