

# DARASET<sup>®</sup> NC90

Non-chloride set accelerator

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## Product Description

DARASET<sup>®</sup> NC90 is a chloride-free, accelerating admixture for concrete which accelerates cement hydration resulting in shortened setting times. DARASET<sup>®</sup> NC90 is an aqueous solution of organic and inorganic compounds, and does not contain any chloride components such as calcium chloride. DARASET<sup>®</sup> NC90 is manufactured under controlled conditions to produce a consistent product which ensures uniform predictable performance when used. DARASET<sup>®</sup> NC90 has been formulated to comply to the requirements of: Australian Admixture Standard 1478 Type Ac Classification.

## Applications

DARASET<sup>®</sup> NC90 may be used to speed finishing operations and/or form removal, leading to savings in concrete construction costs. DARASET<sup>®</sup> NC90 can be used in any Portland cement mixes and produces similar results when mixed in mortar.

- Cold weather concreting when accelerated set times are required.
- Prestressed/Precast concrete to reduce cycle times or heat curing times.
- In any concrete where earlier use of the concrete is required.

## Product Advantages

- Chloride-free
- Reduced finishing/setting times
- Mix economics
- Reduced construction costs
- Non-corrosive

## Advantages

- DARASET<sup>®</sup> NC90 non-chloride set accelerator provides accelerated finishing times, especially in low temperatures.
- DARASET<sup>®</sup> NC90 is used wherever it is desirable to reduce the setting time of concrete. Typical results show that when concrete containing DARASET<sup>®</sup> NC90 is poured at 10°C, the concrete will set up to 2 hours quicker than reference concrete.
- When DARASET<sup>®</sup> NC90 is used in a mix that is designed with pozzolans, such as fly ash and slag, acceptable finishing times are achieved during low temperatures, thus optimising mix costs.
- With quicker set times over reference concrete, DARASET<sup>®</sup> NC90 can be used to speed up finishing operations and/or form removal, leading to savings in concrete construction costs.
- In the manufacture of prestressed/precast concrete, earlier removal of forms leads to reduced cycle times, faster mould turnaround and reduced cost. The accelerated set times of concrete containing DARASET<sup>®</sup> NC90 may allow a reduction in curing temperatures or shortened heat curing times in precast operations.

## Addition Rates

DARASET® NC90 may be used from 250 to 1,500mL / 100kg total cementitious material. The exact dosage depends on the specific job conditions, on local materials, on the degree of set acceleration required and on the type of water reducer used. Typical dose rate is 500 to 1,000mL / 100kg of cementitious material. Trial mixes should be conducted in order to determine specific dose rates required for the desired performance.

Triethanolamine is present at less than 0.025% for a dose rate of 500mL / 100kg total cementitious material in a concrete mix.

## Compatibility with Other Admixtures

DARASET® NC90 is compatible in concrete with all air entrainers such as DAREX AEA®, water reducers such as WRDA®, mid-range water reducers such as MIRA® and high range water reducers such as ADVA® from GCP Applied Technologies.

DARASET® NC90 is compatible with all known admixture types currently available, but should be added to the mix separately and not premixed prior to addition.

## Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.

## Packaging and Storage

DARASET® NC90 is delivered in bulk and in 205L drums. Protect from freezing. Once frozen, the product should be thawed out slowly and remixed thoroughly prior to use.

## Health and Safety

See DARASET® NC90 Material Safety Data Sheet or consult GCP Applied Technologies.

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