

# DARACCEL<sup>®</sup> 37M

Set-accelerating admixture

---

## Product Description

DARACCEL<sup>®</sup> 37M is a set-accelerating admixture formulated to provide accelerated set during low ambient temperatures whilst increasing early and final strengths.

DARACCEL<sup>®</sup> 37M is an aqueous liquid solution of inorganic calcium chloride that is manufactured under controlled conditions to produce a consistent product which ensures uniform and predictable performance when used. DARACCEL<sup>®</sup> 37M contains no triethanolamine.

## Advantages

- DARACCEL<sup>®</sup> 37M offers significant advantages as a concrete set accelerator.
- DARACCEL<sup>®</sup> 37M will reduce the setting time of concrete thus enabling earlier finishing times to be achieved, especially at low ambient temperature, when concrete temperatures are low. Finishing times can be reduced by up to 3 hours when DARACCEL<sup>®</sup> 37M is used.
- DARACCEL<sup>®</sup> 37M will increase early and later age compressive strengths. Early strengths can be increased by over 25% compared to non-accelerated concrete. Increased early strengths will enable the earlier removal of form work.
- When DARACCEL<sup>®</sup> 37M is used in concrete, that is designed with pozzolans such as fly ash and slag, acceptable finishing times and early strengths are achieved, thus optimising costs.

## Product Advantages

- Accelerated set times
- Increases compressive strengths
- Mix economics

## Specification Type

- DARACCEL<sup>®</sup> 37M complies to the requirements of Australian Standard as:
- 1478 Type Ac. (Appendix B4, class C (i))
- Refer Appendix B9.3

## Benefits

- Controlled, predictable acceleration of set during low ambient temperatures
- Early form removal or early use of concrete
- Bleed reduction due to the greatly improved setting times
- Denser, less permeable concrete

- Effective over a wide range of cementitious contents and mix designs
- Used in conjunction with Type GB cements (and mixes that contain fly ash) to offset slowsetting times
- Temperature of hot water used in winter mixes can be reduced to an optimum level

### Compatibility

DARACCEL<sup>®</sup> 37M is compatible with all Portland cement systems, including fly ash, slag and limestone blends.

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

### Addition Rates

DARACCEL<sup>®</sup> 37M addition rate will normally range from 1,000 to 4,000mL / 100kg total cementitious, depending on mix properties required. In order to determine the optimum dose rate of DARACCEL<sup>®</sup> 37M, either on its own or in conjunction with other admixtures from GCP Applied Technologies, trials are recommended.

In general terms “1% Calcium Chloride” is achieved by using a dose of 2,000mL / 100kg T.C. and “2% Calcium Chloride” is achieved by using a dose of 4,000mL / 100kg T.C. For advice and technical assistance, please consult your local GCP representative.

DARACCEL <sup>®</sup> 37M dose (ml/100kg)	NIL	500	1000
Initial Set (20 °C) (Hr Min)	6-20	5-30	4-30
Initial Set (10 °C) (Hr Min)	10-10	8-30	7-00
7 day Compressive Strengths (Mpa)	12.5	15.5	16.5
28 day Compressive Strengths (Mpa)	23.0	24.5	25.5



## Typical Applications

- DARACCEL® 37M can be used in virtually all concrete and masonry applications to achieve economic advantage, such as:
- Flatwork and house slabs
- Pumped concrete
- Concrete floors poured inside on plastic with limited or no air flow
- Applications using GCP MicroFiber™
- Manufacture of concrete blocks, bricks, pavers and roof tiles

## Dispensing Equipment

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

## Chloride Ion

DARACCEL® 37M contains a moderate level of chloride ion.

A dose of 1,000mL / 100kg T.C. will contribute 316 grams of chloride.

DARACCEL® 37M is not recommended in post-tensioned or pretensioned concrete, reinforced concrete with inadequate cover and concrete near marine environments.

DARASET®AF (a non-chloride accelerator) is available for these applications.

## Packaging and Storage

DARACCEL® 37M is delivered in 205L drums, 1,000L bulk boxes and by metered bulk tanker. Shelf life is minimum 12 months.

## Safety Information

A Material Safety Data Sheet is available on request. DARACCEL® 37M is not flammable.

## Test Data

Cementitious content	310kg / m <sup>3</sup>
Type GP/fly ash	(220/90)
Slump	80mm

[gcpat.com.au](http://gcpat.com.au) | Australia customer service: 1800 855 525

Australia 1800 855 525 New Zealand +64 9 448 1146 China Mainland +86 21 3158 2888 Hong Kong +852 2675 7898 India: Chennai +91 44 6624 2308 Delhi +91 124 402 8923 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800 Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

MicroFiber, DARACCEL and DARASET are trademarks, which may be registered in the United States and/or other countries, of GCP Applied Technologies, Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies, Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Australia Pty. Ltd., 14 Colebard Street West, Archerfield, Brisbane, Queensland 4108, Australia

This document is only current as of the last updated date stated below and is valid only for use in Australia. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on [www.gcpat.com.au](http://www.gcpat.com.au). Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2023-07-06

[gcpat.com.au/solutions/products/daracel-37m](http://gcpat.com.au/solutions/products/daracel-37m)