

DARAPEL[®]

Integral Water Repellent Admixture for Concrete

Product Description

DARAPEL[®] is a stable dispersion of stearate and other water repellent compounds that is added to ready mixed concrete during mixing. DARAPEL[®] is a ready-to-use, factory prepared liquid that will simplify handling and eliminate guesswork.

The addition of DARAPEL[®] to the mix will provide hydrophobic, water-repelling properties. The water insoluble stearate acts as a non-wettable lining on the walls of all pores and voids in the mix, making them water repellent. DARAPEL[®] conforms to EN934-2.

Architects, engineers, contractors, and other authorities agree that even good quality concretes, mortars, etc. that are properly placed, set or applied then cured, are inherently porous or permeable to water. The free passage of moisture occurs in pores formed during and after placing. DARAPEL[®] forms an internal barrier against water transmission in mixes used for ready mixed or precast concrete.

DARAPEL[®] can also be added to semi-dry concretes used in the production of masonry products. DARAPEL[®] provides superior resistance to the penetration of moisture in concrete masonry units and reduces the incidence of efflorescence. DARAPEL[®] has particular benefit when used in the production of blocks, bricks or paviour manufacture. It can also be utilised in various mortar mixes and semi-dry masonry units.

Advantages

- The addition of DARAPEL[®] will reduce the amount of water that permeates the concrete. Reducing the passage of water will provide beneficial advantages by:
- Increasing resistance to weathering -wetting and drying -freezing and thawing
- Increase resistance to chemical attack
- Reduce the potential for efflorescence
- Reduce the probability of corrosion of embedded metal
- Improves colourfastness and colour density

Technical Data

DARAPEL [®]	
Appearance	white opaque liquid
Chloride content	nil as per EN480-10
Freezing point	0 °C

Addition Rates

Range: 200 ml–1000 ml per 100 kg cement (0.2%–1.0% volume by weight cement)

The performance of DARAPEL® is best assessed after preliminary tests on site.

As a guide to these trials, we recommend an addition rate of 500 ml per 100 kg cement as a starting point.

DARAPEL® can be added to mixes containing other GCP admixtures. Testing with actual materials should be done to determine performance. Each admixture must be added separately to the mix. Do not allow any of the admixtures to contact each other before they enter the mix.

Packaging

DARAPEL® is supplied in 205-litre, non-returnable containers. Alternatively, bulk deliveries can be arranged.

Storage

DARAPEL® should be stored above 3 °C. Below this temperature the product will cloud and at lower temperatures gel. DARAPEL®, in common with most emulsions, is seriously affected by freezing, is irreversibly damaged and cannot be reconstituted on thawing. Storage life in manufacturer's drums: 12 months from the date of manufacture. Storage life bulk storage: 12 months from the date of delivery.

Health and Safety

See DARAPEL® Safety Data Sheet or consult GCP Applied Technologies.

Technical Service

The Technical Service department of GCP is available to assist you in the correct use of our products.

gcpat.ae | United Arab Emirates customer service: +971 4 5139560

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

P. O. Box 5006, Office 2104, 21 Floor, The Exchange Tower, Opp. JW Marriott Marquis Hotel, Business Bay, Dubai – United Arab Emirates

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