

DARAPEL[®] Plus

New generation admixture for integrally waterproof concrete structures

Product Description

DARAPEL[®]Plus is an innovative liquid admixture that significantly reduces the permeability of concrete, delivering concrete with ultra-low absorption.

One litre weighs approximately 0.86kg \pm 0.02kg.

Where it is Used

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 Plus forms an internal barrier against water transmission in mixes used for ready mixed or precast concrete.

Product Advantages

The addition of Darapel Plus will reduce the amount of water that permeates through the concrete. Reducing the passage of water will provide beneficial advantages by:

- Increasing resistance to weathering — wetting and drying
- Increase resistance to chemical attack • Reduce the potential for efflorescence
- Reduce the probability of corrosion of embedded metal

How it Works

The addition of Darapel Plus 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. The Darapel “built-in” water barriers guard against damage caused by water infiltration.

Addition Rates

The amount of Darapel Plus necessary for a specific mix depends upon the degree of water repellency desired. Suggested addition rates for Darapel Plus in ready mixed or precast concrete are 400 to 1,500mL / 100kg of cementitious material.

Strength

Darapel Plus may have a slight effect on strength. Trial mixes are recommended to evaluate its effect with local materials.

Curing

Proper curing of the in-place mix is vital. Allowing the mix to prematurely dry out should be prevented because re-wetting (and continued hydration) may not be effective.

Dispensing Equipment

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



Compatibility with Other Admixtures

Darapel Plus is compatible with admixture such as MIRA® or ADVA® from GCP Applied Technologies to achieve specific concrete requirements. Admixtures should be added separately to the concrete mixtures during batching and should not be premixed with each other.

Air Content

Added by itself, Darapel Plus may have a slight effect on the entrained air volume. Trial mixes or field tests are recommended to evaluate its effect with your material at your plant.

Packaging

Darapel Plus is available in 205L drums.

Freezing Point

Darapel Plus will freeze at approximately 10°C.

Flammability

None.

Health and Safety

See Darapel Plus Material Safety Data Sheet or consult GCP Applied Technologies.

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