



Chem Coats (Pvt) Ltd.

ChemPlast WP 20

Integral Waterproofing Admixture for Concrete and Masonry Mortars & Plasters

DESCRIPTION

ChemPlast WP 20 is a chloride-free integral waterproofing admixture based on blended hydrophobic materials, fatty acids and other proprietary chemicals. ChemPlast WP 20 is supplied as a white powder which when introduced to the mix, ChemPlast WP 20 disperses throughout the fine cement particles to produce an insoluble water resistant matrix.

EFFECTS OF OVERDOSING

An overdose of double the intended amount of ChemPlast WP 20 will result in a significant increase in air entrainment. Masonry plaster and renders will become too wet for application and strengths will be reduced.

USES

To waterproof Cementitious rendering, plaster, damp, course masonry, blocks, bricks & tile products. Provide a cost effective means of reducing concrete permeability. For waterproofing structures and pre-cast units.

BENEFITS

Reduces water permeability in concrete and masonry elements. Hydrophobic chemicals reduce water penetration and provides Waterproof cement matrix.

Reduces efflorescence caused by dissolved salts transported through the mix.

Enhances durability through the production of low permeability matrix. Chloride-free, safe for use.

ChemPlast WP 20 is suitable for use as cement based waterproofing additives.

MIXING

ChemPlast WP 20 is supplied in powder form. The correct quantity should be calculated and added to the mix during mixing cycle. For best results, starts mixing by adding half the quantity of mixing water into the dry concrete/mortar, then add ChemPlast WP 20 into the mix followed by the remaining of the mixing water.

REDUCING WATER PERMEABILITY

The single most important factor in concrete in its hardened state is durability. By effectively reducing the mixing water, ChemPlast WP 20 reduces capillary reaction, porosity, and shrinkage.

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DOSAGE

Typical dosage of ChemPlast WP 20 is 1 % to 3 % by weight of cement. For optimum performance and dosage, ChemPlast WP 20 should always be determined by running site trials using the materials intended use under prevailing site conditions. This allows for the complete assessment of the concrete mix, optimization of materials and admixture dosage.



TYPICAL PHYSICAL PROPERTIES

Physical Appearance	White Powder
Chloride Content	Nil

USE AT OTHER DOSAGES

Dosages outside the typical ranges quoted may be used if necessary, provided that performance is assessed through trial mixes and adequate supervision is available.

PACKAGING

ChemPlast WP 20 is available in 1 kg & 10kg bag.

PROTECTION ON COMPLETION – Curing

As with all cementitious systems, good curing practice should be maintained. The most effective means of curing is by employing a good curing compound like ChemCure WBW

HANDLING & STORAGE

ChemPlast WP 20 has a shelf life of 12 months provided the temperature is kept within the range of 2° C to 50° C. in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY

ChemPlast WP 20 should not come into direct contact with skin and is harmful to the eyes. The use of gloves and eye protection is advised. Immediately wash with water in the event of contact with skin. Splashes into eyes should also be washed immediately with plenty of clean water and medical advice sought thereafter. ChemPlast WP 20 is a powder and is non-flammable.



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IMPORTANT NOTE

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories, we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Chem Coats representative.

RANGE OF PRODUCTS

WATERPROOFING SYSTEMS
INDUSTRIAL FLOOR SURFACES
PROTECTIVE COATINGS

PREPACKED REPAIR MORTARS
CEMENTITIOUS & EPOXY GROUTS
CONCRETE ADMIXTURES

SEALANTS
CRACK INJECTION
CONCRETE ADHESIVE