KINGKRETE®
We Create Future

KingAdd® 80WP

Silicone-based water-repellent powder admixture for the integral hydrophobation of cementitious dry mortars, renders and plasters.

DESCRIPTION

KingAdd 80WP is a silicone-based, water-repellent powder admixture used for the mass (integral) hydrophobation of cementitious dry-mix formulations. Blended into the dry components before gauging with water, it distributes throughout the hardened material to reduce capillary water absorption and produce a durable water-repellent (hydrophobic) matrix, while retaining good water-vapour permeability.

KingAdd 80WP also reduces efflorescence by limiting the ingress and transport of water-soluble salts, lowers chloride absorption and increases the durability of the finished mortar. It is highly resistant to alkalis, free-flowing and easily incorporated into the dry mix.

USES

KingAdd 80WP is especially recommended for the integral hydrophobation of cementitious materials, including:

- Cement-based construction materials
- Mineral mortars and grouts
- Renders and plasters
- Joint fillers and sealing mortars
- Levelling compounds and skim coats
- Tile adhesives and dry-mix mortars

ADVANTAGES

- Reduces capillary water absorption
- Reduces efflorescence – limits the ingress and transport of water-soluble salts
- Reduces chloride absorption
- High resistance to alkalis
- Increases the surface hydrophobicity
- Good water-vapour permeability
- Increases the durability of cementitious building materials
- Good flowability – blends homogeneously into the dry mix

TECHNICAL PROPERTIES

Chemical basis	Silicone-based hydrophobic powder
Appearance	White powder
Apparent (bulk) density	750 - 990 g/l
Recommended dosage	0.1 - 1.0 % by dry mortar weight
Frost sensitivity	Not sensitive to frost
Storage temperature	Up to +30°C
Shelf life	12 months

METHOD OF USE

Dosage

The typical addition rate is 0.1 – 1.0 % of KingAdd 80WP by weight of the dry mortar, depending on the formulation and the degree of hydrophobation required. The optimum dosage must be established by trials.

Mixing

Add KingAdd 80WP to the dry components of the mortar and blend homogeneously before adding the gauging water. Uniform dispersion throughout the dry mix is essential for consistent performance.

There may be differences in strength and shrinkage between a hydrophobic and a non-hydrophobic system; these should be assessed as part of the formulation trials.

PACKAGING

KingAdd 80WP is available in 20 kg bags.

STORAGE

Store in closed original packaging in cool, dry conditions at temperatures up to +30°C, protected from direct sunlight and from moisture. KingAdd 80WP is not sensitive to frost. Under these conditions the shelf life is 12 months from the date of manufacture.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with the eyes, mouth, skin and foodstuffs. Avoid inhalation of dust and wear suitable dust protection when handling. Treat any splashes to the eyes and skin immediately; if accidentally ingested, seek medical attention. Use in well ventilated areas.

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NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from KingKrete's Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.
® = Registered trademark of the KingKrete-Group in many countries.

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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

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