

WATER-LOCK 328

Organo-modified siloxanes and silanes-based water repellent for various building materials.

Product description

WATER-LOCK 328 is an emulsion based on reactive organo-modified siloxanes and silanes.

Recommended Uses

WATER-LOCK 328 works as a water repellent for various building materials. It can be applied either directly to the building material matrix as an admixture or for post application to the surface of the final building material.

- Admixture for concrete, mortar and other cement-based formulations
- Pre-treatment of building materials (e.g. clinker, fiber cement boards, light weight fillers)
- Injected damp-proof course (DPC, horizontal barrier) for brick, stone and concrete walls
- Treatment of brick, stone and concrete facades

Features and Benefits

In addition to durable protection from water induced damages **WATER-LOCK 328** provides:

- Effective protection against water
- Reduced primary and secondary efflorescence of building materials
- Protection against de-icing salts
- Reduced corrosion of steel reinforced concrete
- A non-tacky finish with stain release effect
- Alkali resistance
- Reduction in heat conductivity and thus, improved thermal insulation
- No reduction of water vapor permeability
- In most cases no change in surface appearance

Standards/Certificates:

EN 480-5 (Capillary water uptake)
EN 12350-7 (Air Content)
prEN 12390 (Compressive Strength)

Physical properties

| | |
|----------------------|--------------------------------------------------------------------|
| Appearance | Milky White |
| Compatibility | Can be used with all types of cement |
| Setting Time | No significant effect of setting time on concrete or mortar |
| Compressive Strength | Maintains compressive strength equal to control concrete or mortar |
| Workability | Improves workability |

Dosage and Handling

For the use as efflorescence control and water repellent in **Admixture applications** dosage 100-200 ml per bag cement (50 kg bag). **WATER-LOCK 328** can be added directly to the mixing water or to the mortar/concrete blend at the end of the mixing process.

For post application it is recommended to evaluate the required dosage by means of representative test areas prior to final impregnation (Coverage area of Cementous wall 100-150 square feet by per kg **WATER-LOCK 328**)

Shelf Life

12 months from date of production if store under cover, out of direct sunlight & frost. Need to protect from extremes of temperature. Properly in undamaged un-opened, original sealed packaging. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your **UNICHEM** representative

Application Areas

- Onsite and ready-mixed concrete
- Precast concrete elements
- Concrete products (e. g. paving stones and concrete blocks)
- Screed concrete
- Special concrete (e. g. HPC/UHPC)
- Air-entrained concrete
- Reinforced concrete
- Self-compacting concrete

Important requirements for water repellents:

- High degree of alkaline stability
- Permeability to gas and water vapor
- Low surface tension
- No sticky surfaces
- Deep penetration depth

WATER-LOCK 328 protects from below potential damages

Cracking, spalling, efflorescence, biological fouling by algae, lichens and fungi, corrosion of steel reinforcement, deteriorated insulation of exterior walls, surface soiling and flaking paint.

WATER-LOCK 328

Hazardous goods classification

WATER-LOCK 328 is non-toxic. Any splashes on skin should be washed well with water. If contact with eyes occurs, it shall be washed well with plenty of water and medical advice sought immediately.

Fire

WATER-LOCK 328 is non-flammable.

Storage stability

WATER-LOCK 328 may be stored in closed container for at least 12 months. The product has to be stored under frost-free conditions; storage temperature should not exceed 35 °C.

Packaging

5 KG
20 KG
60 KG Drum

Ecology, Health and Safety

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data

Precautions

As with all chemical products, care should be taken during use & storage to avoid contact with eyes, mouth, skin & foodstuffs (which can also be tainted with vapor until product fully cured or dried). Treat splashes to eyes & skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children & animals. Reseal containers after use. Don't reuse containers for storage of consumable items. for further info refer to material safety data sheet (MSDS).

