
RUSSTECH[®]

RUSSTECH WATERPEL

INTEGRAL WATER REPELLANT ADMIXTURE FOR CONCRETE & MASONRY PRODUCTS

DESCRIPTION:

RUSSTECH WATERPEL is a polymeric liquid water-repellant admixture that is part of a system of polymeric admixtures mixed throughout the concrete mix of normal, medium, lightweight concrete block, and ready mixed concrete.

RUSSTECH WATERPEL provides long-lasting resistance to water penetration by reacting to form a very effective water repellent network throughout masonry units and concrete. Polymeric admixtures are a proven technology and have earned a reputation for their ability to effectively prevent moisture from penetrating concrete masonry walls as well as concrete.

APPLICATIONS:

RUSSTECH WATERPEL is an integral water-repellant admixture system for use in:

- Concrete block (normal, medium, and lightweight)
- Mortar
- Cast-in-place concrete
- Grout
- Paving stones
- Roofing tile
- Concrete brick
- Stucco

ADVANTAGES:

- Less maintenance and moisture damage due to permanent water repellency
- Inhibits water transmission through hardened cast-in-place concrete
- Less penetration at the surface reduces coats of paint required
- Improves color trueness and consistency
- Reduces mildew and mold growth
- Enhances texture
- Controls and reduces efflorescence

DOSAGE RATE:

RUSSTECH WATERPEL is recommended for use at the following dosages:

12-25 ozs./cwt.-*Normal Weight Concrete Block* (780-1630 mL/100kg)

18-28 ozs./cwt.-*Medium Weight Concrete Block* (1175-1825 mL/100kg)

25-36 ozs./cwt.-*Lightweight Concrete Block* (1630-2350 mL/100kg)

3-4 ozs./cwt.-*Ready-Mixed Concrete* (196-327 mL/100kg)

Because local job conditions vary and optimum dosages need to be determined, contact your local RussTech technical service representative for further assistance to ensure proper water repellent system performance.

SPECIFICATIONS:

Conforms to:
ASTM E 514 Wind Driven Rain Resistance
ASTM C 1072, ASTM E 72 Bond Strength To Mortar
ASTM E 96 Reduced Water Vapor Transmission
ASTM C 67, ASTM C 140, ASTM C 642 Reduced Absorption Rates
ASTM C 140 Increased Compressive Strength

PRECAUTIONS:

RUSSTECH WATERPEL will not correct building design flaws, out of spec materials, mix proportion errors, incorrect manufacturing procedures, or unorthodox construction practices.

Proper block manufacturing procedures, mixing, and proportioning of mixes must be incorporated.

RUSSTECH cannot be responsible for incorrect use of **RUSSTECH WATERPEL**.

Raked joints are not permitted. Be sure to cover the top courses at the end of each workday to prevent collection of water in cores. If necessary, only use mild acid for cleanup. Do not use high pressure cleaning methods.

TECHNICAL NOTE:

Flashing and weep hole design details are available upon request.

Efflorescence occurs when excess calcium salts become soluble again from moisture in the environment around the concrete or masonry unit. External sources of moisture can be humidity, rainfall, condensation, or snow etc. When these salts become soluble, they migrate to the surface during the evaporation process, consequently, staining the surface.

RUSSTECH WATERPEL, as mentioned earlier, effectively reduces moisture from penetrating the surface and may be helpful in stopping salts from becoming soluble and migrating to the surface. It is important to point out though, that the addition of **RUSSTECH WATERPEL** alone, will not guarantee the control of efflorescence.

RUSSTECH WATERPEL MORTAR ADMIXTURE *must* be incorporated in the masonry mortar in conjunction with the integral water repellent admixture for concrete block to ensure a permanent moisture-repellant wall system.

STORAGE:

RUSSTECH WATERPEL may freeze at temperatures below 40F (4 C). Freezing will harm this material, so, precautions should be taken to protect it from freezing. If it should freeze, it will no longer be effective in the masonry units.

Also, **RUSSTECH WATERPEL** should be stored in sealed containers where temperatures don't exceed 118 F (48 C).

PACKAGING:

55-gallon drums, 275-gallon totes, and bulk delivery.

SHELF LIFE:

12 months

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"We Add The Difference"