

RUSSTECH WATERPEL-M

INTEGRAL WATER REPELLANT ADMIXTURE FOR CONCRETE MASONRY MORTAR

DESCRIPTION:

RUSSTECH WATERPEL-M is a polymeric liquid water-repellant admixture that is designed specifically for masonry mortar, stucco, and grout that is incorporated during the mixing process. When introduced into the mortar, **RUSSTECH WATERPEL-M** provides long-lasting resistance to water penetration by reacting to form a very effective water repellent network throughout masonry mortar. Polymeric admixtures are a proven technology and have earned a reputation for its ability to effectively prevent moisture from penetrating concrete masonry walls and masonry mortar.

APPLICATIONS:

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

- Masonry Mortar
- Grout
- Stucco.

ADVANTAGES:

- Less maintenance and moisture damage due to permanent water repellency
- 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-M is recommended for use in masonry mortar at 16 fluid ounces (475mL) with each bag or cubic foot of cementitious materials incorporated into the masonry mortar mix. For each bag of pre-blended masonry cement, use 16 fluid ounces (475mL).

PRECAUTIONS:

RUSSTECH WATERPEL-M will not correct building design flaws, out of spec materials, mix proportion errors, incorrect manufacturing procedures, or unorthodox construction practices. Proper manufacturing procedures, mixing, and proportioning of masonry mortar mixes must be incorporated. **RUSSTECH** cannot be responsible for incorrect use of **RUSSTECH WATERPEL-M**.

Rake 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 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-M**, as mentioned earlier, effectively reduces moisture from penetrating the masonry 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-M** alone, will not guarantee the control of efflorescence.

RUSSTECH WATERPEL-M 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.

INSTRUCTIONS:

Masonry mortar materials should be mixed according to ASTM C 270 and the directions listed below:

1. Thoroughly mix all mortar materials and water until consistency is drier than normal.
2. Introduce **RUSSTECH WATERPEL-M** into the mix at the correct dosage rate.
3. While continuing to mix, add water to the mixture until desired consistency is reached. Make sure mortar mixes for a total of 4-5 minutes.
4. After final mixing, mortar should be placed within 2-1/2 hours. During this time, the mortar can be retempered if needed.

Correct mortar joint tooling is critical to water repellency of the joint. According to the National Concrete Masonry Association (NCMA), concave-tooled joints ensure the best water repellency performance. It is recommended that when **RUSSTECH WATERPEL-M** is used in the mortar that all joints be tooled concave.

STORAGE:

RUSSTECH WATERPEL-M may freeze at temperatures below 40 F (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 as a water repellent in the masonry mortar. Also, **RUSSTECH WATERPEL-M** should be stored in sealed containers where temperatures don't exceed 118 F (48 C).

PACKAGING:

RUSSTECH WATERPEL-M is available in 32 fluid ounce (950 mL) bottles and packaged 12 bottles per case for masonry mortar.

SHELF LIFE:

18 months

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