

RUSSTECH PE-1

INTEGRAL PRIMARY EFFLORESCENCE PREVENTATIVE ADMIXTURE FOR MANUFACTURED CONCRETE PRODUCTS

PRIMARY EFFLORESCENCE:

Primary efflorescence is the result of alkaline salts which leach out from the cementitious mix upon evaporation of mix water within the first 30 days of being produced. **RUSSTECH PE-1** reduces primary efflorescence by binding these alkaline salts before they become water soluble.

DESCRIPTION:

RUSSTECH PE-1 is a 100% reactive admixture that provides initial resistance to primary efflorescence by reacting with the alkaline salts to form a very effective mineral binding network throughout the manufactured concrete units.

APPLICATIONS:

RUSSTECH PE-1 is for use in:

- Concrete block (normal, medium, and lightweight)
- Mortar
- Pavers and paving stones

ADVANTAGES:

- Inhibits water transmission through manufactured concrete units
- Improves color trueness and consistency
- Enhances texture
- Controls and reduces primary efflorescence
- Provides short term water repellency

SPECIFICATIONS:

Conforms to:

- ASTM C 1072, ASTM E 72 Bond Strength To Mortar
- ASTM E 96 Reduced Water Vapor Transmission
- ASTM C 140 Increased Compressive Strength

DOSAGE RATE:

RUSSTECH PE-1 is recommended for use at the following dosages:

12-24 ozs./cwt.-*Normal Weight Concrete Block* (783-1566 mL/100kg)

6-12 ozs./cwt.- *Concrete Paving Units* (391-783 mL/100kg)

RUSSTECH PE-1 should be added to the mix with the aggregate and up to 25% of the mix water. Allow admixture to properly disperse for 30 seconds before adding cement, pozzolans and the rest of the mix ingredients. Do not allow **RUSSTECH PE-1** to come into contact with dry cement. If **RUSSTECH PE-1** is added to the concrete mixture at any other time, allow an additional 60-120 seconds mix time after all the admixture has been added.

PRECAUTIONS:

RUSSTECH PE-1 will not correct building design flaws, out of specification materials, mix proportion errors, incorrect manufacturing procedures, or unorthodox construction practices. Proper manufacturing procedures including consistent mixing and proportioning of mixes must be incorporated.

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.

RUSSTECH cannot be responsible for incorrect use of **PE-1**.

TECHNICAL NOTE:

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 PE-1, as mentioned 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 PE-1** alone, will not guarantee the control of efflorescence.

STORAGE:

RUSSTECH PE-1 may congeal at temperatures below 40F (4 C). If this occurs, warm material to 77F (25 C) to re liquefy admixture prior to use. Freezing will not harm this material. **RUSSTECH PE-1** should be stored in sealed containers where temperatures don't exceed 118 F (48 C).

PACKAGING:

55-gallon drums and 275-gallon totes

SHELF LIFE:

12 months

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