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# RUSSTECH<sup>®</sup>

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## RUSSTECH HYPEL-D

***MULTI-COMPONENT STRENGTH  
ENHANCING INTEGRAL WATER  
REPELLANT AND EFFLORESCENCE  
CONTROL ADMIXTURE***

### **DESCRIPTION:**

**RUSSTECH HYPEL-D** is a polymeric multi-component strength enhancing liquid water-repellant and efflorescence control admixture that is designed to enhance the beauty of manufactured concrete products while making them stronger and more resistant to penetration by water. **RUSSTECH HYPEL-D** resists water penetration by reacting deep within the cast concrete pore structure to form a very effective water repellent network throughout the masonry unit. Polymeric admixtures are a proven technology and have earned a reputation for their ability to effectively prevent moisture from penetrating concrete.

### **ADVANTAGES:**

- Less maintenance and moisture damage due to enhanced water repellency
- Superior Density
- Reduced Absorption
- Better Feed
- Reduced Efflorescence
- Extra Color Protection
- Inhibits water transmission through hardened concrete units
- Improves color trueness and consistency
- Reduces mildew and mold growth
- Enhances texture
- Controls and reduces efflorescence

### **APPLICATIONS:**

**RUSSTECH HYPEL-D** is an integral water-repellant admixture system for use in:

- Paving stones
- Architectural concrete block
- Concrete brick
- Grout
- Concrete roofing tile

### **DOSAGE RATE:**

**RUSSTECH HYPEL-D** is recommended for use at the following dosages:

*12-25 ozs./cwt.-Normal Weight Concrete Block (783-1630 ml/100kg)*

*16-30 ozs./cwt.-Medium Weight Concrete Block (1043-1956 ml/100kg)*

*24-40 ozs./cwt.-Lightweight Concrete Block (1565-2608 ml/100kg)*

*4-20 ozs./cwt.-Concrete Paving Stones (260 - 1305 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 936 Solid Concrete Interlocking  
Paving Units  
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  
NCMA TEK 19-7 Spray Bar Test

## **PRECAUTIONS:**

**RUSSTECH HYPEL-D** will not correct building design flaws, out of specification materials, mix proportion errors, incorrect manufacturing procedures, or improper construction practices. Proper block manufacturing procedures, mixing, and proportioning of mixes must be incorporated.

**RUSSTECH** cannot be responsible for the incorrect use of **RUSSTECH HYPEL-D**.

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 HYPEL-D** 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 HYPEL-D** alone, will not guarantee the control of efflorescence.

## **STORAGE:**

**RUSSTECH HYPEL-D** 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 and should be discarded. Also, **RUSSTECH HYPEL-D** 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:**

6 months

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"WE ADD THE DIFFERENCE"