Product Information

BDC Efflorescence Blocker ***Hybrid Emulsion Polymer***

Description

BDC Efflorescence Blocker is an extremely versatile 10% solids, clear sealer and coating. It is formulated for use over concrete with high levels of alkalinity. It is a highly versatile emulsion polymer, which provides many of the chemical resistant performance attributes of more expensive 2K water borne epoxy and polyurethane dispersions. The excellent water, alkali, and efflorescence resistance of this product, in combination with its exterior durability and its ability to adhere to a variety of substrates, allow it to be used in many applications.

Key Benefits include:

- **Fast drying/early block resistance**
- **Exterior durability**
- **Water resistance (non-whitening)**
- **Efflorescence/alkali resistance**
- **Tannin/stain blocking**
- **Grain raising resistance**
- **Universal primer properties**
- **Excellent direct and indirect impact resistance**

Preparation

Sandblasting is the preferred method of removal. If sandblasting is not feasible, remove all existing efflorescence by sanding surface and scrubbing surface with a blend of 10 parts water to 1 part muriatic acid (hydrochloric acid, HC1). Repeat as necessary. Completely neutralize the surface by scrubbing with liquid TSP or baking soda (rate: 1 lb baking soda to 1 gal of water) and rinsing 3-4 times with water. Allow surface to dry completely before application of BDC Efflorescence Blocker.

Note: The efflorescence will sometimes reappear due to water being reintroduced. In this case, repeat cleaning steps as necessary.

Application

BDC Efflorescence Blocker can be applied using a paint brush, ¼" nap roller, or spray gun.

Coverage Rates: Apply 2 thin coats at a rate of 250 to 400 square feet per gallon depending porosity of the surface and application procedure used.

Cure Time: Product dries in 20 minutes to 2 hours depending on temperature.

Caution: Always wear protective clothing, eye protection, and filtered masks when mixing or using product. Wash hands after using products. Keep away from children. Material contains no ingredients which are required to be listed by OSHA per 29 CFF 1910, 1200.

Storage

B.D. Classic Enterprises has determined that the shelf life of BDC Efflorescence Blocker is in excess of six months from the date of shipment receipt when the product is stored between temperatures of 5 °C to 25°C in its original packaging. BDC Efflorescence Blocker must be protected from freezing in its original form of supply.

Safety

Before using this or any other BDC product, please consult the MSDS.

Clean Up

Uncured material can be removed with a soap and warm water. All empty containers must be disposed of according to local, state, and federal regulations.

Warranty

B.D. Classic Enterprises guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. B.D. Classic makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact B.D. Classic.

Typical Properties	Unit	Value
Appearance		Off-white
Stabilization		Nonionic
Dynamic Viscosity Brookfield RVT, Spindle 1, 20 rpm	mPa.s	150 – 200
pH-value DIN ISO 976		6.5
Solids Content	%	10
Density DIN 51757	g/cm³	1.07
Weight/Gal	Lb/Gal	8.9
Solvent content	%	5
MFFT DIN 53 787	°C	20
Tg	°C	19

ASTM C 309 and C 1315 Results

Test – ASTM C 156	ASTM C 309 Standard Requirements for Type I – Class A Compounds	ASTM C 1315 Standard Requirements for Type 1 – Class A Compounds	BDC Rotogravure Clear Coat
Water Retention	=0.55 kg/m² in 72 hrs.	=0.40 kg/m² in 72 hrs.	0.40 kg/m²

Application rate used was 300 ft²/gal

Test	BDC Efflorescence Blocker
Water Beading, 24 hrs. dry, red paver	4
QUV, 250 Hrs., Aluminum	
Yellowing	None
Blisters	10-None
Chemical Resistance, 1 week dry, 30 minutes contact	
Water	10
Transmission Fluid	8
Gasoline	4
Formula 409	9
Motor Oil	6
Brake Fluid	7
5% NaOH	9
Mustard	9
Grape Juice	10
Average	8.0
Adhesion, 1 week dry, Concrete	
Wet	3B
Dry	5B
Hot Tire Pick-Up	
Imprint	7
Delamination	10
Low Temp Film Formation, 40°F	
Sealed	Pass
Unsealed	Pass