Product Information

BDC Efflorescence Stopper ***Corrosion Resistant Primer***

Description

BDC Efflorescence Stopper is for direct-to-metal applications offering fast dry and excellent corrosion resistance. It is also a highly versatile emulsion polymer, which provides many of the chemical resistant performance attributes of more expensive 2K water borne epoxy and polyurethane dispersions at much lower cost and VOC. The excellent water, alkali, efflorescence, cleaner and corrosion 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. Applications include a variety of low VOC primers, paints, stains, and sealers for metal, concrete and wood applications.

Key Benefits include:

- **Fast drying/early block resistance**
- **Excellent corrosion 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**

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

Storage

B.D. Classic Enterprises has determined that the shelf life of Efflorescence Stopper 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 Stopper must be protected from freezing in its original form of supply.

Safety

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

Description

Efflorescence Stopper is a versatile epoxy acrylic hybrid that provides excellent water resistance and exterior durability. It also provides alkali resistance and good adhesion to a variety of substrates.

Features

- **Excellent water resistance**
- **Good efflorescence resistance**
- **Corrosion resistance**

Typical Properties	Unit	Value
NVW	%	10
pH		6.5
Viscosity	cps	150-200
MFFT	°C	20
Tg	°C	19

Applications

- **Wood**
- **Metal**
- **Concrete**
- **Primer**
- **Sealers**

BDC Efflorescence Stopper

A stucco mixture at a pH >13 is applied to Hardy plank and allowed to dry eight hours. It is then primed with the sealer and allowed to dry sixteen hours. The red topcoat is prepared by adding the following colorants to an exterior flat accent base: 2 oz/qt KX White Colorant, 1.5 oz/qt C Yellow Oxide Colorant, and 1.5 oz/qt 1947 Red (from Color Corp.) The topcoat is then applied and allowed to dry eight hours. The hardy plank is turned face down over a hot water bath for the reported time and then removed from the QCT chamber. The sample is allowed to dry two hours before evaluation. The scale is from 10 – 0, with 10 being no efflorescence and 0 being complete efflorescence coverage.

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 Efflorescence Stopper
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

Hydrostatic Pressure Testing

BDC Efflorescence Stopper also passes hydrostatic pressure testing and can be used in below grade applications. BDC Efflorescence Stopper exhibits the following hydrostatic pressure resistance characteristics:

- **No blistering**
- **No adhesion loss**
- **No softening**
- **No discoloration**
- **No water droplets**

Test	BDC Efflorescence Stopper
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