

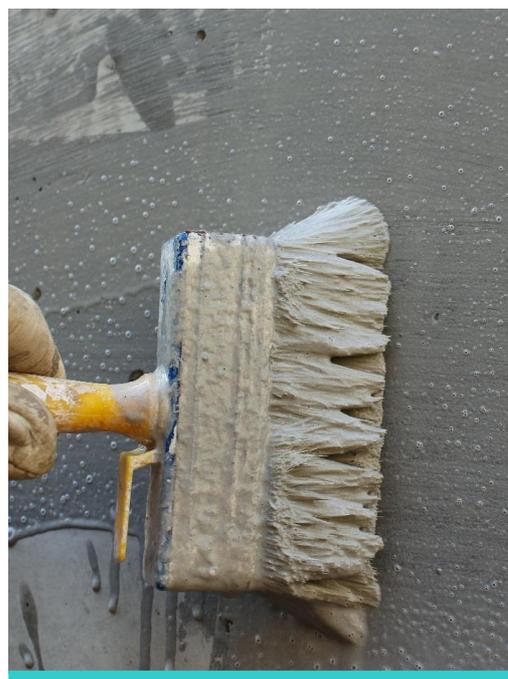
# EVA EMULSION

## GENERAL PURPOSE EVA ADMIXTURE

### PRODUCT DESCRIPTION

**OPTIMIX EVA EMULSION** is a milky white co-polymer emulsion of Vinyl Acetate and Ethylene. It has excellent elongation properties and is designed to enhance the bonding, water resistance and flexibility of common cementitious mixes and products.

**OPTIMIX EVA EMULSION** is ideal as the main active ingredient to improve physical properties of cement and mortar mixes including primers, bond coats, mortars, screeds, renders and concretes.



### TYPICAL USAGE

- Excellent emulsion for spatterdash
- Bond Coat provides high bonding strength to substrates and can protect and pacify steelwork
- Admixture for cementitious mortars for general purpose

### FEATURES AND BENEFITS

- Excellent Adhesion Characteristics
- Improved Flexural Strength
- Improved Tensile Strength
- Water-based
- Good Durability
- Enhanced Water Resistance
- Low VOC
- High Solids Content



## TECHNICAL DATA

Product Characteristics	<b>OPTIMIX EVA EMULSION</b>
Co-polymer Type	Ethylene / Vinyl Acetate
Supplied State	Aqueous Solution
Colour	White
VOC	13 g/L
Solids Content	> 51 %
pH Value	4-5
Packaging Size	50 kg per pail
Shelf Life (5 - 40°C)	12 months in a sealed container



Prescribed Mix Proportions			
	Bond Coat	Render / Screed	Spatterdash
Cement	1.0 - 1.5 kg	50 kg	50 kg
Sand	--	125 kg	125 kg
<b>EVA Emulsion</b>	1 L	9 L (5 – 12.5 L)	10 L (10 – 12.5 L)
Water	--	9 L (12.5 – 25 L)	15 L (12.5 – 25 L)

Performance			
	Bond Coat	Render / Screed	Spatterdash
Compressive (MPa)	--	≥ 40	--
Tensile (MPa)	--	≥ 4	--
Flexural (MPa)	--	≥ 8	--
Bond (MPa)	≥ 2	≥ 1	≥ 1
ISAT @ 120min (ml/m <sup>2</sup> .s)	--	< 0.01	--

Yield And Coverage			
	Bond Coat	Render / Screed	Spatterdash
Mix Density (kg/m <sup>3</sup> )	~ 1,250	~ 2,000	~ 1,900
Mix Yield	~ 0.6 kg/m <sup>2</sup>	~ 9.5 m <sup>2</sup> @ 10 mm thick	~ 3.7 kg/m <sup>2</sup>
Mix Coverage (m <sup>2</sup> /L)	~ 4	~ 1.0 @ 10 mm thick	~ 5

Environmental Data	
Volatile Organic Compounds (VOC)	13 g/L
Potential BEAM points	Product is manufactured within 800km of Hong Kong project sites

Note: The ideal mixing proportions and resulting test data are highly depending on the quality of cement, sand grading, moisture and environments. Test results, yield and coverage are based on laboratory analysis, site results may vary.



## **INSTALLATION GUIDE**

*(Refer to Method Statement for more details)*

### **SURFACE PREPARATION**

Substrate including metals must be clean and free from unsound material, oil, grease and other contaminants. Concrete substrates should be damp and free from pooled water.

### **MIXING**

According to the proportion table, measure or weigh **OPTIMIX EVA EMULSION** and water in a correct ratio into a container followed by the solid part: cements, sand, etc.

Mechanically mix the materials with a suitable forced action mixer such as:

- Bond Coat or Spatterdash - a slow speed drill fitted with a suitable spiral paddle
- Mortars or screeds – a pan mixer

Mix for 3-5 minutes or until a homogeneous mixture is achieved. The mixture is ready to use.

### **APPLICATION**

#### **Bond Coat:**

Apply bond coat on the substrate using stiff brushes or rollers. Wait until the bond coat becomes tacky before applying subsequent construction. If the bond coat dries out then it should be re-applied.

#### **Render/Screed:**

Renders and screeds modified with **OPTIMIX EVA EMULSION** will exhibit improved bonding performance and may not require a bond coat, however, **OPTIMIX EVA EMULSION** bond coat is recommended for best results especially when using a dry-mix screed workability.

#### **Spatterdash:**

Flick, Spread or spray the spatter-dash slurry evenly onto the substrate and allow 2-7 days hardening before applying subsequent renders.

For other applications, please consult our technical representatives for advice.

### **FINISHING AND CURING**

The mixture incorporating **OPTIMIX EVA EMULSION** does not usually require any special finishing or curing, however in exceptionally dry, hot or windy conditions normal curing systems such as membranes, water spray and wet hessian can be used.

### **CLEANING**

Mixes incorporating **OPTIMIX EVA EMULSION** can be expected to bond very strongly to most construction materials so any excess should be removed with a wet cloth as soon as practicable.

### **LIMITATIONS**

**OPTIMIX EVA EMULSION** has high performance and is suitable as an admixture for site batched mortars, however such mixes are liable to variations in materials, measurement and mixing on site. For ultimate results contact Optimix and select a specialized pre-packed mortar, render, screed or adhesive from our extensive range.

### **HEALTH AND SAFETY**

**OPTIMIX EVA EMULSION** is non-toxic and non-flammable but it can cause irritations to persons with sensitive skin. Avoid contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. If contact with eyes, rinse immediately with plenty of clean water and seek medical advice.



## STORAGE

Store in closed containers, in a dry place and protect from direct sunlight. Do not store at a storage temperature below 5°C. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.

## ALTERNATIVE PRODUCTS

- **PROCRETE**
- **SF80** Primer
- **PE** Polymer Emulsion



**Important Note:** The information contained herein is, the best of our knowledge, true and reliable and is supported by the present state of our knowledge. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives as the conditions of use and any labour involved are beyond our control.



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