



# PROCRETE

## GENERAL PURPOSE POLYMER ADMIXTURE

### PRODUCT DESCRIPTION

**OPTIMIX PROCRETE** is a milky white co-polymer emulsion of high grade Styrene Butadiene rubber. It is designed to enhance the bonding, water resistance, durability and flexibility of common cementitious mixes and products.

**OPTIMIX PROCRETE** 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
- Ideal mixed with **OPTIMIX F12** for spatterdash
- Ideal mixed with **OPTIMIX F12** to enhance render and screed performance
- Ideal Bond Coat for **OPTIMIX F12** for render and screed application

### FEATURES AND BENEFITS

- Excellent Adhesion Characteristic
- Reduced Shrinkage And Cracking
- Can Improve Compressive Strength
- Enhanced Water Resistance
- Improved Flexural Strength
- Good Workability
- Improved Tensile Strength
- Can Be Used In Contact With Water



## TECHNICAL DATA

Product Characteristics	<b>OPTIMIX PROCRETE</b>
Co-polymer type	Styrene Butadiene Rubber
Supplied State	Aqueous Solution
Colour	White
Specific Gravity (20°C)	1.02
Solids Content	~ 40%
Toxicity	Non-toxic
Packaging	20 or 200 kg
Shelf Life (5 - 40°C)	12 months in a sealed container



Prescribed Mix Proportions						
	Bondcoat	Render / Screed	Repair Mortar	Spatter Dash	Adhesive Mortar	High Strength Floor Screed
Cement	1.5 kg	50 kg	50 kg	50 kg	50 kg	50 kg
Sand	--	125 kg	125 kg	100 kg	125 kg	125 kg
10mm Agg.	--	--	--	--	--	100 kg
Procrete	1 L	9 L	9 L	10 L	9 L	9 L
Water	--	9 L	9 L	15 - 25 L	9.0 - 9.5 L	7 L
Mix Weight	2.5 kg	193 kg	193 kg	175 - 185 kg	193 - 193.5 kg	291kg

Environmental Data	
Volatile Organic Compounds (VOC)	≤ 10 g/L
Potential BEAM points	Product is manufactured within 800km of Hong Kong project sites

Yield And Coverage						
	Bondcoat	Render / Screed	Repair Mortar	Spatter Dash	Adhesive Mortar	High Strength Floor Screed
Mix Density (kg/m <sup>3</sup> )	~ 1,650	~ 2,000	~ 2,000	~ 1,800	~ 2,000	~ 2,250
Prescribed Mix Yield	~ 6m <sup>2</sup> @ 0.25mm thick	~ 9.5m <sup>2</sup> @ 10mm thick	~ 9.5m <sup>2</sup> @ 10mm thick	~ 1.0 - 3.5kg/m <sup>2</sup>	~ 9.5m <sup>2</sup> @ 10mm thick	~ 13m <sup>2</sup> @ 10mm thick
Coverage (m <sup>2</sup> /L)	~ 6 @ 0.25mm thick	~ 1.0 @ 10mm thick	~ 1.0 @ 10mm thick	~ 5 - 18	~ 1.0 @ 10mm thick	~ 0.7 @ 10mm thick

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.



Performance						
	Bond coat	Render / Screed	Repair Mortar	Spatter Dash	Adhesive Mortar	High Strength Floor Screed
Compressive (MPa)	--	≥ 40	≥ 40	--	≥ 40	≥ 45
Tensile (MPa)	--	≥ 4	≥ 4	--	≥ 4	≥ 4.5
Flexural (MPa)	--	≥ 8	≥ 8	--	≥ 8	≥ 9
Bond (MPa)	≥ 2	≥ 1	≥ 1	≥ 1	≥ 1	≥ 1
ISAT @ 120min (ml/m <sup>2</sup> ·s)	--	< 0.01	< 0.01	--	< 0.01	--

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

## INSTALLATION GUIDE

*(Refer to Method Statement for more details)*

### SUBSTRATE PREPARATION

Substrate including metals must be clean, 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 PROCRETE** 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 **PROCRETE** will exhibit improved bonding performance and may not require a bond coat, however, **PROCRETE** bond coat is recommended for best results especially when using a dry-mix screed workability.

#### Repair Mortar:

Saw cut the area to be repaired to a depth of 10mm to avoid feather edging. Apply **PROCRETE** Bond Coat slurry by brush onto the repair area taking care to completely encase any exposed reinforcement. Apply the Repair Mortar while the bond coat is still tacky.

#### Spatterdash:

Flick, spread or spray the spatterdash slurry evenly onto the substrate and allow 2-7 days for hardening before applying subsequent renders.

#### Adhesive Mortar:

Spread and comb the adhesive horizontally on the substrate using a notched trowel. If required repeat this on the back of the tile. Place and press the tiles firmly onto the adhesive bed while the adhesive is still wet. If the adhesive dries out, remove it and re-apply.

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



## FINISHING AND CURING

The mixture incorporating **OPTIMIX PROCRETE** do 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

The mixture incorporating **OPTIMIX PROCRETE** 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 PROCRETE** has high performance and is extremely versatile 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 PROCRETE** is non-toxic and non-flammable but can cause irritations to persons with sensitive skin. Wear suitable protective gloves and goggles while handling the product. Working areas should be adequately ventilated. 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

- **EVA Emulsion**
- **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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