



奧迪美®

# BONDPRO POWDER

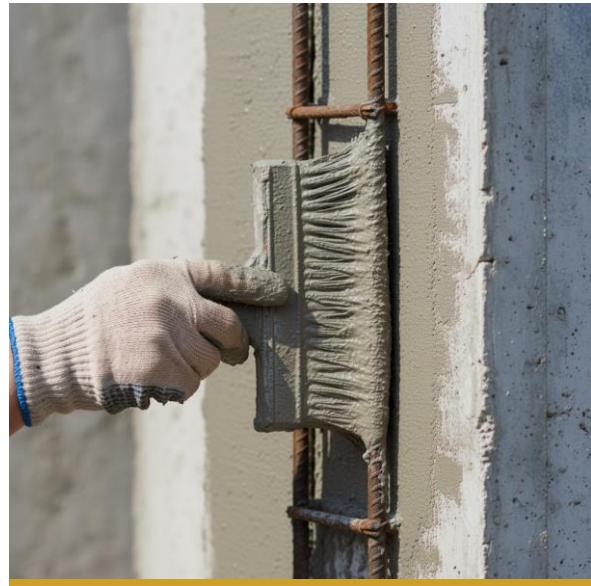
SINGLE COMPONENT SLURRY FOR PROTECTING,  
PRIMING & BONDING

## PRODUCT DESCRIPTION

**OPTIMIX BONDPRO POWDER** is a premixed dry blend of high quality 525 grade portland cement, powder polymers, additives and fine aggregate fillers that requires only the addition of clean water to achieve a high-performance slurry with a broad range of application.

It is intended primarily to be brushable but with control of the water addition it is possible to achieve trowellable or sprayable consistency depending on the situation at hand.

**OPTIMIX BONDPRO POWDER** is ideal for quickly and easily pre-treating and priming steel reinforcement and steel reinforced concrete prior to the placement of fresh concrete, mortars or grouts to achieve a monolithic bond with the added protection of Corrosion Resistance.



## TYPICAL USAGE

- Protecting & pacifying steel rebar
- Priming of steel & concrete at critical interfaces
- Improving Bonding between existing concrete and fresh concrete, mortar or grout

## FEATURES AND BENEFITS

- Excellent Chloride Ion Resistance
- Excellent Water resistance
- Excellent Adhesion Characteristics
- Versatile Workability



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## TECHNICAL DATA

Product Characteristics	Slurry Consistency	Paste Consistency
Flow (mm)	~ 200	~ 180
Compressive Strength (MPa)	≥ 20	≥ 30
Tensile Strength (MPa)	≥ 4	≥ 5
Flexural Strength (MPa)	≥ 8	≥ 12
Bond Strength (MPa)	≥ 3.0	≥ 3.0
ISAT @ 120min (ml/m <sup>2</sup> ·s)	< 0.01	
Chloride Ion Penetration	Low	
Water Demand (per 25kg bag)	~ 32 %	~ 26 %
Density (kg/m <sup>3</sup> )	~ 1,600	
Yield (per 25kg bag)	20.6 L	19.8 L
Powder Consumption (Coverage)	1.2 kg/mm/m <sup>2</sup>	1.3 kg/mm/m <sup>2</sup>

Note: Test results, yield and coverage are based on laboratory analysis, site results may vary.

Packaging	OPTIMIX BONDPRO POWDER
Co-polymer type	OPC modified with Re-dispersible EVA and functional additives
Packaging (per bag)	25 kg
Shelf Life	12 months



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

Test Methods	
Flow	BS EN 1015-3
Density	BS 6319 Part 5: 1984: Method A
Compressive Strength	HKHA MTS (2020/2022) Spec. Part D 2.1.1
Flexural Strength	HKHA MTS (2020/2022) Spec. Part D 2.1.2
Tensile Strength	HKHA MTS (2020/2022) Spec. Part D 2.1.3
Bond Strength	HKHA MTS (2022/2024) Spec. Part D 2.1.15 (Method 1)
ISAT	BS 1881: Part 208 (1996)
Chloride Ion Penetration	CS1 2010: Section 19: Table 5

## 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 dry or damp and free from pooled water.

### MIXING

Mix **OPTIMIX BONDPRO POWDER** with water in the proportions:

- 25 kg powder + (6.25 - 8.5 L) of water

Mechanically mix the materials with a suitable forced action mixer such as a slow speed drill fitted with a suitable spiral paddle.

*NB Free fall mixers are not suitable.*

Add powder to water steadily while mixing. Adjust the water addition depending on the workability required, but do not exceed the maximum water addition.

Mix for 2 - 3 minutes or until a homogeneous mixture is achieved. The mixture is ready to use.

### APPLICATION

#### Slurry Consistency

Apply the slurry on the substrate using stiff brushes or rollers. Additional coats can be applied once the underlying coat has become tacky or dry.

A typical 2 coat application will be about 0.5 mm to 1mm thick.

#### Paste Consistency

Spread the paste on the substrate using a suitable flat or notched steel trowel. A typical 2 coat application will be about 1 - 3 mm thick.

Applying subsequent construction should wait until the surface becomes tacky or recently dried but should be completed the same day.

If the slurry or paste is allowed to dry overnight then apply a fresh coat prior to receiving subsequent construction.

### FINISHING AND CURING

**OPTIMIX BONDPRO POWDER** is designed to be encapsulated and thus does not usually require any special finishing or curing.

### CLEANING

**OPTIMIX BONDPRO POWDER** 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.

### HEALTH AND SAFETY

**OPTIMIX BONDPRO POWDER** 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.

**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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