BASF
The Chemical Company

BARRA® 80

Polymer modified cementitious fairing mortar

DESCRIPTION

BARRA 80 is a two part, polymer modified**,** cementitious mortar, consisting of a liquid polymer as Part A and a powder as Part B. The two parts on mixing yield an easily trowellable, smooth paste with excellent bond to concrete and masonary substrates.

The product is designed for applying in thin layers of maximum 3 mm in one coat.

FIELDS OF APPLICATION

BARRA 80 is recommended for thin patch repairs and for levelling out surface unevenness to prepare the surface for further finishing operations. Applications include :

- repairs to surface honeycombs on concrete structural elements such as, columns, stair case noses, walls and beams.
- bedding ceramic and concrete tiles, light weight bricks.
- as a bonding and levelling paste for insulation panels.
- filling surface blow holes to obtain a fair faced concrete.

FEATURES AND BENEFITS

Polymer modified	Improved flexural, bond strengths even in thin layers.
Dense structure	Reduced permeability to water and aggressive environment. Durable.
Thixotropic	Non sagging in vertical and overhead situations.
Smooth paste consistency	Fills in minute surface irregularities. Permits feather-edging. Excellent surface finish possible.
Prepacked, preformulated	Ready to use. No batching errors.
Non toxic	Can be applied on surfaces in contact with drinking water.

TYPICAL PERFORMANCE DATA

Shore D hardness no (28 days)	: 65
E-Modulus	: 17 KN/mm^2
Slant shear strength	: > 2.5 N/mm^2

PROPERTIES

		Part A	Part B
Supply form		liquid	powder
Colour		white	grey
Density of mixed material			: 2.0 kg/L
Working time	@ 20°C		: 50 mins
	@ 30°C		: 25 mins
Minimum application temperature			: > 7°C

APPLICATION

Surface Preparation

Correct substrate preparation is critical for optimum performance.

Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminant. Cement laitence, loose particles, oil, grease, mould release agent, curing membrane, and other surface contaminants must be removed by wet grit blasting, high pressure water jetting (approx. 150bars), scabbling or such other effective method.

Saturate the substrate with clean water before applying the fairing mortar. To avoid high surface temperatures shade the areas for the period of application.

Mixing

Mechanical mixing is necessary. A slow speed (600 rpm), heavy duty electric drill with a helical paddle is recommended.

Place Part A (white liquid) of the pack in a pail.

Keeping the mixer running, add Part B (grey powder) slowly. Mix for at least 3 minutes to get a lump-free homogenous mix.

Placing

Apply **BARRA 80** with a spatula or a trowel onto the prepared surface. Thin layers can be applied with a brush.

For laying thicker sections, apply in layers of not more than 3 mm each. Scratch each layer before hardening to provide mechanical key for bonding the next layer.

The final surface may be smoothed by a wooden, plastic, or synthetic sponge faced trowel. Trowelling may start, only after the mortar has set sufficiently to resist the penetration by fingers into the surface.

For filling grooves or cavities deeper than 10 mm use other products in BASF Construction Chemicals repair range. Consult BASF Construction Chemicals for advice on product selection and application.

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CURING

BARRA 80 requires adequate curing to achieve optimum performance. Apply a uniform coat of a BASF Construction Chemicals curing compound MASTERKURE 181 (see separate data sheet) immediately after final finishing by roller or low pressure spray.

EQUIPMENT

Mixing : A heavy duty slow speed (approx. 600 rpm) drill fitted with a helical mixing paddle.

CLEANING

Clean tools and equipment with water, before the fairing mortar hardens.

ESTIMATING DATA

A 12.5 kg pack of **BARRA 80** on mixing yields 6.25 litres (0.00625 m^3). Therefore material requirement is 2 kg/m^2 @ 1 mm thickness.

Note : Avoid using part packs.

PACKAGING

Each pack of **BARRA 80** consists of 10.23 kg of Part B in a multi-ply paper sack with polythene liner & 2.27 kg of Part A in a plastic can.

SHELF LIFE

BARRA 80 can be stored in tightly sealed original packing for 12 months, if kept dry and at even temperature.

PRECAUTIONS

Health : Part B of the pack is alkaline like normal cement and can cause skin irritations to persons with sensitive skin. Wear gloves and masks while handling the product. Take all precautions normally taken while handling cement.

Fire : BARRA 80 is not flammable.

For detailed Health, Safety and Environmental recommendations, please consult and follow all instructions in the product Material Safety Data Sheet.

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