

# Polyglaze®

## PZ MP99 SBR

### PRODUCT DESCRIPTION

Polyglaze PZ MP99 SBR is a styrene butadiene rubber latex emulsion additive, specially designed for use as an integral bonding agent with cement - based products in slurry bonding coats, mortars, screeds, renders and tile adhesives. It can be used to modify and enhance bonding and adhesion to properly prepared substrates.

### AREAS OF APPLICATION

- ◆ Suitable for repairing concrete and as an adhesive mortar or screed
- ◆ Enhances the bonding strength of floor toppings and overlays
- ◆ Perfect for thin-layer patch repairs on concrete surfaces
- ◆ Effective in repairing wide or deep cracks in concrete

### ADVANTAGES

- ◆ Improves adhesion to a wide range of substrates
- ◆ Works as bonding agent for screeds and renders
- ◆ Increases flexural and tensile strength of mortar
- ◆ Provides waterproofing properties on screeds and plasters by reducing permeability
- ◆ Can be used in both internal and external areas
- ◆ Improves bond strength and reduces shrinkage and cracking
- ◆ Offers good workability at reduced water/cement ratio

### APPLICATION METHODOLOGY

#### Surface Preparation

- ◆ The surface should be clean, dry and free from dust, grease/oil and other contaminants. New concrete and masonry surfaces must be cured for 28 days
- ◆ Smooth substrates must be mechanically roughened by shot / sand blasting
- ◆ Surface / substrate should be saturated with clean water; however, no standing water should be present during application
- ◆ Before application over corroded reinforced steel, all rust and deposits must be removed, and the steel surface should be cleaned to a near - white blast standard

#### Mixing

- ◆ In a clean container, add the required quantity of Polyglaze PZ MP99 SBR and water. With the mixer running, gradually add the measured quantities of cement, sand, and dust - free aggregates depending on the type of application whether for bonding slurry / repairs mortars or screeds
- ◆ Mix for 2 - 3 minutes using a mechanical mixer (at approx. 300 rpm) to achieve a smooth, uniform consistency free of lumps. Prepare only as much material as can be used within the working life of the product - approximately 30 minutes.
- ◆ Avoid prolonged mixing to minimise air entrainment in the mix
- ◆ The mix design depends upon thickness and intended use. However, typical mix ratio for repairs mortars or screeds are as follows:



	Repair Mortars (6mm to 12mm)		Screeds	
Cement	50 kgs	1 Part	50 kgs	1 Part
Sand	150 kgs	3 Parts	75 kgs	1.25 Parts
Polyglaze MP99 SBR	9 kgs	-	9 kgs	-
Water	10-12 Ltrs		8-12 Ltrs	
Aggregates	Nil	Nil	75 kgs	1.25 Parts

#### Application

Bonding fresh mortar or concrete to hardened concrete:

- ◆ After surface preparation, scrub the bonding slurry thoroughly onto the properly prepared substrate
- ◆ Ensure full coverage of the surface and edges
- ◆ Apply mortar or concrete before the bonding slurry starts hardening
- ◆ For polymer modified mortars; apply immediately after bonding slurry
- ◆ Trowel immediately and broom finish, if needed

#### Curing

- ◆ Polyglaze PZ MP99 SBR is self-curing
- ◆ The use of plastic sheet is recommended for a minimum of 24 hours to protect from direct sunlight, wind, rain and extreme weather

#### Cleaning

- ◆ Clean all tools with water immediately after use. Solvents such as white spirit can be used with wire brush for cleaning hardened material

## PACKAGING

- ♦ Polyglaze PZ MP99 SBR is available in 1kg, 5kg bottles and 25kg cans

## STORAGE & SHELF LIFE

- ♦ Store in a dry place away from moisture and sunlight
- ♦ Best before 12 months from the manufacturing date in original sealed condition

# TECHNICAL DATA SHEET

## PHYSICAL PROPERTIES

Physical Appearance	Milky White Liquid
Curing Time	5-7 Days
Specific Gravity	Approx. 1.02 gm cc
pH	9.5 (+/- 0.5)

## PERFORMANCE PROPERTIES

PROPERTIES	STANDARD	RESULTS
Bond Strength (SBR:Cement = 1:1)	ASTM C 882 :2023	3.5 N/mm <sup>2</sup>
Water Permeability(SBR : Cement = 1:1)	EN 12390 - 8:2019	Nil

## COVERAGE

- ♦ Coverage will vary as per line / level of the surface, thickness of material used, mix design and application method

## HEALTH & SAFETY

- ♦ Use a respiratory mask and protective gloves during application.
- ♦ Clean hands with soap and water after application.
- ♦ Avoid contact with skin / eyes. In case of unlikely contact, rinse eyes immediately with plenty of clean water and cleanse skin with soap and lukewarm water. Seek medical advice if irritation occurs / persists.
- ♦ In case of unlikely swallowing, seek medical attention immediately.

### Disclaimer:

The information in this TDS is for general guidance only. Specific advice for site conditions is available upon request. Details provided by the company are in good faith, when product is properly stored, handled, and applied under normal conditions. The site conditions, material compatibility, and workmanship are beyond our control, no warranties expressed or implied are given. The company accepts no liability for unsatisfactory results or consequential damages arising from product use.



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