

TECHNICAL DATA SHEET

P.DS.083 (FB SERIES) REV10/12/2024

RAC110
WATER BASED

RUBBER DUCK CEMIX WATERPROOFING ADDITIVE

Promac Rubber Duck Cemix is a milky white specialised polymer, which is used as an effective strengthening and waterproofing additive to cement mixtures & composites.

**USES****INTERIOR & EXTERIOR**

Promac Rubber Duck Cemix mixed with cement & aggregates and water forms an effective waterproofing mixture and or in conjunction with a membrane system, that is used for:

- Shower/bathroom floors & walls
- Reservoirs
- Balcony and veranda floors (under tiles)
- Retaining walls
- Lining of effluent ducts and channels
- Cement roofs primary layer, in conjunction with a non-woven membrane

Promac Rubber Duck Cemix added to a quality cement mixtures forms a bonding coat for: Wall render and plaster and can be used for waterproofing between two skins of external brick walling.

FEATURES & BENEFITS

- Suitable for internal and external surfaces
- Non - toxic
- Simple application process
- Watertight
- Non-toxic alkaline base
- Reduces friability
- Increases water resistance
- Oil resistant
- Improves strength and flexibility
- Good abrasion resistance
- Increases adhesion performance
- Provides tough, sound surface for painting
- Ideal for submerged or subterranean
- Less than 90ppm lead

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TECHNICAL INFORMATION

PHYSICAL FORM	Milky white liquid with characteristic odour
COLOUR	Milky white liquid dry to clear
FINISH	Dependent on application
SPREADING RATE	Bonding Agent Application: 5 – 8m ² /l For Keying Agent: See mixing ratio in application below
POLYMER TYPE	Specialised polymer
SOLIDS BY WEIGHT	Approx. 46±2%, By volume: Approx. 44±2%
DENSITY AT 23°C	1.04±0.02 kg/L
FLASH POINT	Non-flammable (water-based product)
PACKAGING	5l & 20l
MIXING	Mix the required amounts of Promac Rubber Duck Cemix and water first, add the correct quantity of the mixtures and mix slowly, while mixing, to avoid the formation of lumps. Mixing can either be achieved manually or mechanically, with small quantities of 5 litres and less. Larger quantities should be mechanically mixed with a slow speed mixer, set at 400-600 rpm. Mixing should continue until a uniform, lump-free consistency is obtained. The slurry should be mixed periodically during application to prevent settlement
THINNING	If the mix is a little stiff, a small amount of water can be added to adjust the working properties.
CLEANING	Do not allow the product to dry on tools, brush and mixing equipment. Tools, brush and mixing equipment is readily cleaned using water. (Some detergent may be added to water to facilitate clean up)

IMPORTANT

Limitations:

- Do not apply the product if it is raining or if rain is expected within 4 hours. Do not apply product if the surface temperature is above 40°C.
- Only use good quality powders, cement, building sand, stone and aggregate parts. Low grade components often result in cracking.
- Promac Rubber Duck Cemix** modified compositions are usually darker in shade than the conventional material. This is due to the polymer content of **Promac Rubber Duck Cemix**.

SURFACE PREP

General:

All surfaces that are to be coated or applied with the use of **Promac Rubber Duck Cemix** are to be clean, sound and free of all contamination.

All damaged existing coatings, poorly adherent material & contaminants:

Remove all poorly adhering material such as loose particles and damaged existing paint from the surface. If not effectively removed with the use of high-pressure water cleaning, then remove with the means of mechanical surface preparation methods such as Hand or Power tool cleaning methods.

Painted and Gypsum plastered surfaces:

Need to be chipped to remove 80-90% of the paint or gypsum.

Oils and Grease:

Remove oils, dirt and grease from the surfaces with the use of Promac Clean & Degrease or Promac Galv Prep.

Fungicide, algae, mould and bacteria:

Remove fungicide, algae, mould, bacteria or other contaminants of a similar nature from the surfaces with the use of Promac Anti-Fungicide or Promac Galv Prep.

Efflorescence:

Remove all physical and loose material from the substrate by means of Hand Tool Cleaning (i.e. bristle brushing) thereafter treat and prepare the surface with the use of Promac Galv Prep.

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Friable Substrate Material Surface surfaces:

Remove friable material by mechanical means and then reinstate with a suitable mortar mix include **Promac Rubber Duck Cemix** into the mixture as advised below.

Cement-based plaster and screeds:

Must be at least 2 weeks old and concrete surfaces at least 4 weeks old to avoid excessive movement due to shrinkage.

Bitumen coated surfaces (not damp proofing):

Must be chipped thoroughly to expose 80-90% of the substrate.

Ceramic tile surfaces

Must be firm and clean. Unsound or damaged surfaces must be chipped to expose 80-90% of the substrate.

Smooth surfaces

Such as power floated and off shutter concrete, any laitance must be removed by means of acid wash, followed by rinsing thoroughly with clean water.

- It is important that suitable damp-proof membranes be in place to prevent rising damp.
- Do not apply over existing structural movement joints.

NOTE: All additional products advised for use during surface preparation must be use and applied in accordance with the relevant product's data sheets.

APPLICATION

PLASTER, MORTARS & WATERPROOFING WITH NON-WOVEN MEMBRANE(WP1100) (i.e., ponds).

Mixing ratio of **Promac Rubber Duck Cemix** is 1: 1 with water.

MIX DESIGN

CEMIX	WATER	CEMENT MIXTURE	FINAL MIX	COVERAGE
1L	1L	3.5KG	3.11L	1m2
5L	5L	17.5KG	15.55L	5m2
20L	20L	70KG	62.2L	20m2
200L	200L	700KG	622L	200m2

Saturate absorbent surfaces thoroughly with water. While the surface is still damp, apply a coat of the final mix. Pre-cut the non-woven membrane (WP1100) into convenient sizes for application, then soak the membrane in the final mix. Remove the soaked membrane from the final mix and smooth it onto the prepared substrate making sure to eliminate all air bubbles. Overlaps of adjacent membrane must be a minimum of 50mm. Once the entire area to be treated is covered, apply a generous coat of the final mix and allow to dry. A final coat of final mix is then applied to complete the application.

Fishponds:

Due to the sensitive nature of fish, it is important that the fishpond is adequately washed out after applying the final mix after full cure. Cement is highly alkaline and will have an initial effect on the PH of the water, so ensure that the water is conditioned and stable before introducing your fish.

Bonding / Bagging:

For waterproof bonding/bagging, saturate the brick substrate and, while it is still damp, apply a coat of bonding/bagging final mix by means of a block brush. Immediately apply a render of screed while the final mix is still wet.

Cement Premix: Premix the cement with the required and relevant building sand / stone / aggregate parts as advised by the manufacturer of the cement product. Thereafter a separate mixture of **Promac Rubber Duck Cemix** & water is to be made prior to adding it to the cement premix. Mixing time should not exceed 2 minutes to keep air entrapment to a minimum. The exact mixture or ratio of **Promac Rubber Duck Cemix** & water is dependent on the required performance properties. See the advised ratios and mixtures below:

FOR WATER RESISTANCE, BONDING (GRIP) COAT: Dilute 2 parts **Promac Rubber Duck Cemix** with 1 part water.

FOR OPTIMUM WATER RESISTANCE AND FLEXIBILITY: Dilute 3 parts **Promac Rubber Duck Cemix** with 1 part water.

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Thoroughly mix all sand, cement, and powders. Add the **Promac Rubber Duck Cemix** and water mixture to the cement premix until a desired consistency is reached.

DO NOT USE

APPLICATION ENVIRONMENT:		
SURFACE TEMPERATURE	AMBIENT TEMPERATURE	RELATIVE HUMIDITY
Min: 5 °C	Min: 10 °C	Min: 10%
Max: 40 °C	Max: 35 °C	Max: 80%
IF THE SURFACE IS DAMP (MOISTURE READING ABOVE 50%)		
IF IT IS RAINING OR RAIN IS FORECAST		
BEFORE 9H00 AND AFTER 16H00 IN THE WINTER		

HEALTH & SAFETY

Keep paint away from children and animals. Never smoke, drink or eat while painting. Wear protective overalls, gloves and goggles. If accidental contact with skin should occur, wash immediately with clean water. Harmful if swallowed. Do not induce vomiting. Consult your doctor. Ensure good ventilation during application and drying. Store in a cool, dry place out of the sun.

DISCLAIMER ADVICE

The information given in this Product Information Sheet is based on controlled laboratory tests and many years of experience. It is given in good faith, but no guarantee of any performance characteristic is given or implied. Promac Paints cannot be held liable for consequential damage of whatsoever nature that may arise from the use of Promac products. Paint technology is continuously being developed and Promac Paints reserves the right to update product specifications without prior notice. Contact Promac Paints for further details.