

METZ 8X2

LATEX MORTAR ADDITIVE



DESCRIPTION:

Metz 8X2 is a modified synthetic rubber latex liquid which is used to improve normal sand/cement bedding mortars, cement render and concretes. Metz 8X2 is also used as one component of the high performance ceramic tile adhesive Metz 26C. Refer Metz 26C data sheet for these instructions.

FEATURES AND BENEFITS:

- **Excellent Adhesion**
Tenacious bond to concrete, brick, ceramics, etc.
- **High Water Resistance**
Reduces water penetration of cement mortar by up to 70%.
- **Easy and Safe to Use**
Pot life up to 4 hours. Does not contain harmful vapours.
- **Increased Frost Resistance**
Greatly improved performance compared with unmodified cement mortars.
- **Higher Strength**
Increased compressive, tensile and flexural strengths compared with unmodified cement mortars.
- **Variable Bed Thickness**
Can be used in concentrated form with sand and cement for 6mm-12mm thickness and as an additive in the gauging water for thicknesses above 12mm.

RECOMMENDED:

In commercial, industrial and domestic application with bed thickness over 6mm for bonding:

- Ceramic Floor Tiles
- Mosaics, Slate and Marble
- Ceramic Linings for Swimming Pools
- Ceramic Wall Tiles

In Portland cement based gunning mixes.

In cement render and Portland cement patching mixes.

Note: For bed thickness below 6mm refer Metz 26C or Metz HSA.

NOT RECOMMENDED:

- On flexible substrates including fibre cement sheet. Refer Metz HSA or Metz 25.
- For bonding thick bed mortar screeds to polyurethane membranes such as Metz 20M or Metz 22. Refer Metz Epoxy Primer.

PHYSICAL PROPERTIES:

Mortar compositions based on 3 parts sand to 1 part cement to 0.4 parts 8X2 Liquid.

(Typical Values)	Mortar modified with Metz 8X2	Unmodified mortar
Adhesion to Concrete:	2.5MPa	1.0MPa
Flexural Strength:	9.0MPa	7.0MPa
After 60 freeze/thaw cycles:	8.8MPa	NIL
Tensile Strength:	4.0MPa	3.0MPa

Resistance to Water Penetration:

METZ 8X2 additive reduces the amount of water penetrating a sand/cement mortar by up to 70%.

COVERAGE: Theoretical quantities (allow for wastage)

Bed thickness 6mm-12mm	0.2 litre/sq.metre	Metz 8X2 Liquid per mm of bed thickness
Bed thickness above 12mm	0.5 litre/sq.metre	Metz 8X2 Liquid for priming and adhesive paste.
	0.25 litre/sq.metre	Metz 8X2 Liquid per 20mm thickness of bed for mortar additive.

APPLICATION TEMPERATURE:

The recommended temperature range for application of Metz 8X2 is 10°C to 35°C.

At temperatures below 10°C, curing may be inhibited and final technical properties may be affected.

At temperatures above 35°C, consistency and setting rates may be affected.

If necessary, consult Metz.



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INSTRUCTIONS FOR USE

1. Surface Preparation

All concrete surfaces must be clean, free from oils, curing compounds and laitance and be cured for 28 days. Laitance is best removed by mechanical abrasion.

2. Application

Note: Portland Cement should be General Purpose (Type GP) Grade. Do not use Builders' Cement or similar.

a) Bed thickness 6mm-12mm (priming not required)

i) Bedding Mortar:

by weight 160 kgs of washed sharp sand
 1 bag portland cement (40kgs)
 13-18 litres Metz 8X2

by volume 3 parts sand
 1 part cement
 0.4-0.6 parts Metz 8X2 Liquid

Do not add water.

The sand must be free from excessive fines and should have a minimum amount of clay and organic matter. Normal washed concrete sand is recommended.

ii) Pot Life: 2-3 hours at 20°C.

iii) Installation:

Apply bedding cement by screeding to appropriate levels or by buttering each tile. If keyed back tiles are being used, ensure back is completely filled with bedding cement. Apply tiles before bedding cement begins to skin. Surplus mortar may be cleaned off with water, prior to setting.

b) Bed thicknesses above 12mm:

i) Priming: Concrete surface should first be primed with a mixture (by volume) of:

1 part Metz 8X2 Liquid
4 parts water
3 parts portland cement

The mixture should be brushed into the prepared surface ensuring entire concrete surface is covered.

Note: Priming is not required for fresh Metz 18A membrane. For other membranes consult Metz for recommendations.

ii) Bedding Mortar:

Bedding mortar is as specified in part a) except that undiluted Metz 8X2 Liquid is replaced by a mixture of Metz 8X2 Liquid and water in the ratio 1:16 by volume.

iii) Installation:

While the priming coat is still wet, apply the bedding mortar. Two laying methods are recommended:

Where tiles and bedding mortar are laid course by course - the bedding mortar is spread to the required depth and tiles beaten into the mortar to the correct line and level.

Where the tiles are laid on a screed of bedding mortar - accurately screed bedding mortar to required levels. While bedding mortar is still plastic, apply a paste of (by volume):

1 part Metz 8X2 Liquid
1 part water
4 parts portland cement

Proportions can be altered slightly to suit conditions. Spread this mixture with a notched trowel or similar. Paste should be 1mm-2mm thick. Lay tiles into the paste and beat tiles into position to ensure full contact with tile back. Ensure tiles are laid before paste has skinned over.

c) Render - Refer AS3958.1 - 1991 App B.

i. Splatterdash (refer Section B3.2). Use undiluted Metz 8X2 together with a 2:1 by volume sand:cement mix to improve adhesion, water resistance and other properties.

ii. Render Mix (Refer Section B4). Use a mixture of Metz 8X2 liquid diluted with water in the ratio 1:16 by volume together with render mortar to improve workability and physical properties.

3. Storage

Protect from frost and temperatures below 5°C. Storage life is 6 months minimum.

4. Safety Precautions

Metz 8X2 is classified as non-hazardous.

General precautions for handling chemical products should be followed.

For full safety precautions, refer to the Material Safety Data Sheet.

Always ensure you have the latest data sheet version, refer www.metz.net.au

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