

MXL



DESCRIPTION

MXL is a high-bond strength, resilient, adhesive and synthetic latex rubber resin, used for both mortar pointing restoration (replacement), for tuckpointing (white line in brick pattern over masonry) and the outline thin screed outline background the white line is placed onto.

USE

MXL is a complete replacement for water in cement sand mortars, grouts and thin screeds. It contains bonding and water retention agents plus dispersion, stabilisation and extrusion aids. MXL can be coloured with powder colourants added in a liquid form. The synthetic rubber latex resin in MXL fixes the colour in the cement matrix which protects it from fading.

MXL has the following positive advantages:

- Achieves complete restoration in wide or thin fretted mortar joints.
- MXL mortars have excellent bonding strength. Full curing takes 28 days.
- The MXL treated joints are not visible and have a proven long-term history from 1972 for protection against adverse environmental conditions and normal building movement.
- MXL mixes are easily extruded using a Calmarc caulking gun or trowelled for mortar or tuckpointing.

NOTE: While the MXL is common to both applications there are differences in preparation of the joints, brickwork, application and finishing of the two processes. These have been detailed separately in the following instructions.

JOINT PREPARATION

- Using a hand held angle grinder with a dust collection attachment (100mm x 6mm diamond disc), grind out the defective mortar to a minimum

depth of 20mm. In some cases, the mortar can be hand removed by using a screwdriver by scrapping it along the joint if the mortar is off very low strength.

- Hose down the joint to remove all loose material.

ASSOCIATED INGREDIENTS: The cement used for mortarpointing or tuckpointing must be general purpose grey or white cement, sand should be dried, clay tile free with no organic matter for the two processes.

MORTARPOINTING

MXL MORTAR PREPARATION

- Pre-blend the following dry ingredients by weight or by volume (we recommend weight measure for accuracy) in the following ratios:
 - 1 part cement (one litre tamped by volume or 1.4kg by weight).
 - 4.0 parts dry, clean, clay-free mortar sand (4.0 litres tamped by volume, 5.6kg by weight).
- To a mixing container, add one part of MXL.
- Gradually add the premixed dry mixture with constant stirring using a blunt nosed trowel if mixing by hand: or a ribbon paddle in a slow speed (200-500 RPM) electric drill.
- If necessary, add further MXL liquid or cement sand dry mix until the mortar can be extruded with a toothpaste-like consistency.
- To colour wet MXL mortar, add powdered iron oxide colours mixed into a paste with water. Add 6% of dry colour in paste form, based on amount of MXL in the mortar. Add half of the weight of the colour as water to make the paste.

NOTE: The most accurate method to colour match the mortar is to add the powdered colorants as a paste to the MXL liquid. The colour should be added at 5% (dry basis) on the amount of MXL.

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IDENTIFICATION
PAGE 1 of 4
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QUINDALUP HOLDINGS PTY LTD (A.C.N. 009 026 386) AS TRUSTEE FOR CALMARC FAMILY TRUST (ABN 18 340 289 669)
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The dry blended cement/sands are added to the coloured MXL.

MORTAR REPLACEMENT APPLICATION

- Load a mortar gun with mortar mixture using a blunt nosed trowel.
- Moisten the joint if it has dried out.
- Extrude the MXL mortar into the joint using a nozzle opening slightly less than the joint width.
- Run a continuous extrusion allowing the extrusion to protrude (like a metal weld) 2-3mm above the brick face.
- Allow 1-1.5 hours for mortar to begin setting. A crust forms on the protruding mortar to assist curing.
- Cut off 1-2mm of the excess material with a small hand tool or small trowel.
- IMMEDIATELY (depending on the finish required) finish the joint by flushing with a steel trowel; or iron the joint with a 20 - 25mm diameter plastic pipe. Keep the trowel or pipe moistened with a wet rag while finishing.
- The finishing MXL mortar in the joint will form a crust again to form a curing membrane.

NOTE: Variations in cement/sand ratios or additions of fine sand/pulverised quartz fillers may be used for special applications or joint finishes. The general mix given is based on normal mortar sand for standard work.

NOTE: If the MXL mortar mix is too wet, it will drop down from the top of the mortar joint when the MXL mortar is extruded into the joint. If the MXL mortar will not extrude through the nozzle in the gun, empty the gun, clean it again, and add more MXL to the mortar mix.

- CLEAN UP: Clean all tools or spillage with water. Keep the mortar gun and inside the barrel well oiled with a light cover of machine oil.

TUCKPOINTING

MXL SCREED PREPARATION

Make sure the surfaces of the brick faces are clean of weak or loose material so a clean sound surface is prepared.

- Wash down to remove all dust and loose material.
- Pre blend the following dry ingredients together in a bucket by weight or by volume in the following ratios:
 - One part cement (one litre tamped by volume or 1.4kg by weight).
 - Two and a half parts of 250-300 mesh sand (2-5 litres tamped by volume or 3.5kg by weight).
 - Add 750ml of MXL to a mixing container and add 70ml or 60g of Spanish Red Oxide made into a paste by mixing with 40ml water. Other colours can be added separately or as a mixture depending on the final colour required. Test trial to get the correct match.
 - Slowly add the dry blended material using a blunt nosed trowel or a ribbon-type mixer in a slow speed 200-500RPM drill. Constantly stir the material until it is homogenous with the consistency of a cake mix..
 - If necessary, add MXL in small quantities until obtaining a stiff mix which can be trowelled with the viscosity of toothpaste.

MXL RENDER PREPARATION

- Moisten the brick area to be treated.
- Trowel the MXL render mix into and along the mortar joints as a thin screed render finishing with a feather edge on the edge brick face. The full render screed should surround the bricks as an uneven border covering adjoining brick faces about 20-30mm wide and leaving some 70% of the brick face remaining

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- Allow MXL render screed to set overnight.

EVEN COLOURING OF MASONARY

- Dilute ATTAFLX 1 volume part with 5 parts of water and mix in enough natural iron oxide powder (e.g. red, umber or some mixture) to produce a light match stain colour of the light coloured bricks to the darker, older-looking bricks. Perform test in unobtrusive areas, and checking the resulting dry stain finish, until the required colour match is achieved. Drying will take 12-24 hours.
- When satisfied with the matched stain colour, coat the whole wall with the liquid colour stain and allow it to dry thoroughly for 24 hours without dew or water contact.

JOINT PREPARATION FOR TUCKPOINTING

- Using 10mm wide masking tape; mark out the wall in a brick pattern.
- Place the tapes 4-5mm apart in parallel lines.
- The mid-point of the gap between the parallel masking tapes should be over the centre of the coloured screed, or close to the centre line of the old mortar joints.

PREPARATION OF MXL SCREED FOR TUCKPOINTING

- Pre-blend the following dry ingredients by (preferably) weight or by tamped volume in the following ratios:
- One part of white cement (1 litre tamped by volume or 1.4kg by weight).
- Two and one half parts 250-300 mesh white sand (2.5 litres tamped by volume or 3.5kg by weight).
- To a mixing container, add 750ml of MXL and add 60ml or 70g of white oxide colour or other powdered oxide colours depending on the colour mixed with 40ml of water to form a paste. Blend well.

- Gradually add the pre-blended dry material with constant mixing using a blunt nose trowel if mixing by hand; or a ribbon-type paddle mixer in a slow speed 200-500 rpm drill.
- If necessary add small quantities of MXL or dry mix until the mix has a trowelable putty consistency.

APPLICATION OF MXL POINTING MIXTURE

- Using a small hand tool, apply the tuckpointing mix along the gap between the tapes.
- Flatten the mix to 1-2mm above the tapes with the trowel end of the small tool.
- Repeat the process until the pointing mix batch is finished then pull off the tapes at an angle away from the line.
- Allow the tuckpointing to set for at least a day.
- Thoroughly spray the whole wall with a water repellent treatment of AQUAPHOBIC. Dilute one volume of AQUAPHOBIC with nine volumes of water and mix well. 1 litre of AQUAPHOBIC makes a 10 litre dilution. Ensure that all glass, metals and painted surfaces are masked off before spraying the AQUAPHOBIC dilution.

PRODUCT COVERAGE

This is estimated as follows. Quantities will vary with the surface condition of the substrate.

Mortar pointing 2m²/litre of MXL.

Tuckpointing render 1m²/litre of MXL.

AQUAPHOBIC: 4m²/litre/coat. This concentrate is applied as a 1 : 9 dilution with water. Two coats are recommended.

CLEAN UP

Clean all tools and equipment with water. If hard deposits form, clean with MARCMOVE.

PACK SIZES

MXL is sold in packs of 20 and 200 litres.

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STORAGE

All products should be stored in a cool covered area. Lids should be replaced immediately after decanting. All liquid materials are waterborne. It is wise to wear safety glasses and boots with protective clothing such as overalls.

TRANSPORT

MXL is waterborne and not in the hazardous goods category. It should not be transported next to food items.

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