MGO
Plastering Solutions

APPLICATION GUIDE

FOR APPLICATION TO

MAGNUM® BOARD

Contents

A tailored solution

MGO Plastering Solutions is specifically designed for Magnesium Oxide Boards, including renowned products like Magnum Board by Health Based Building.

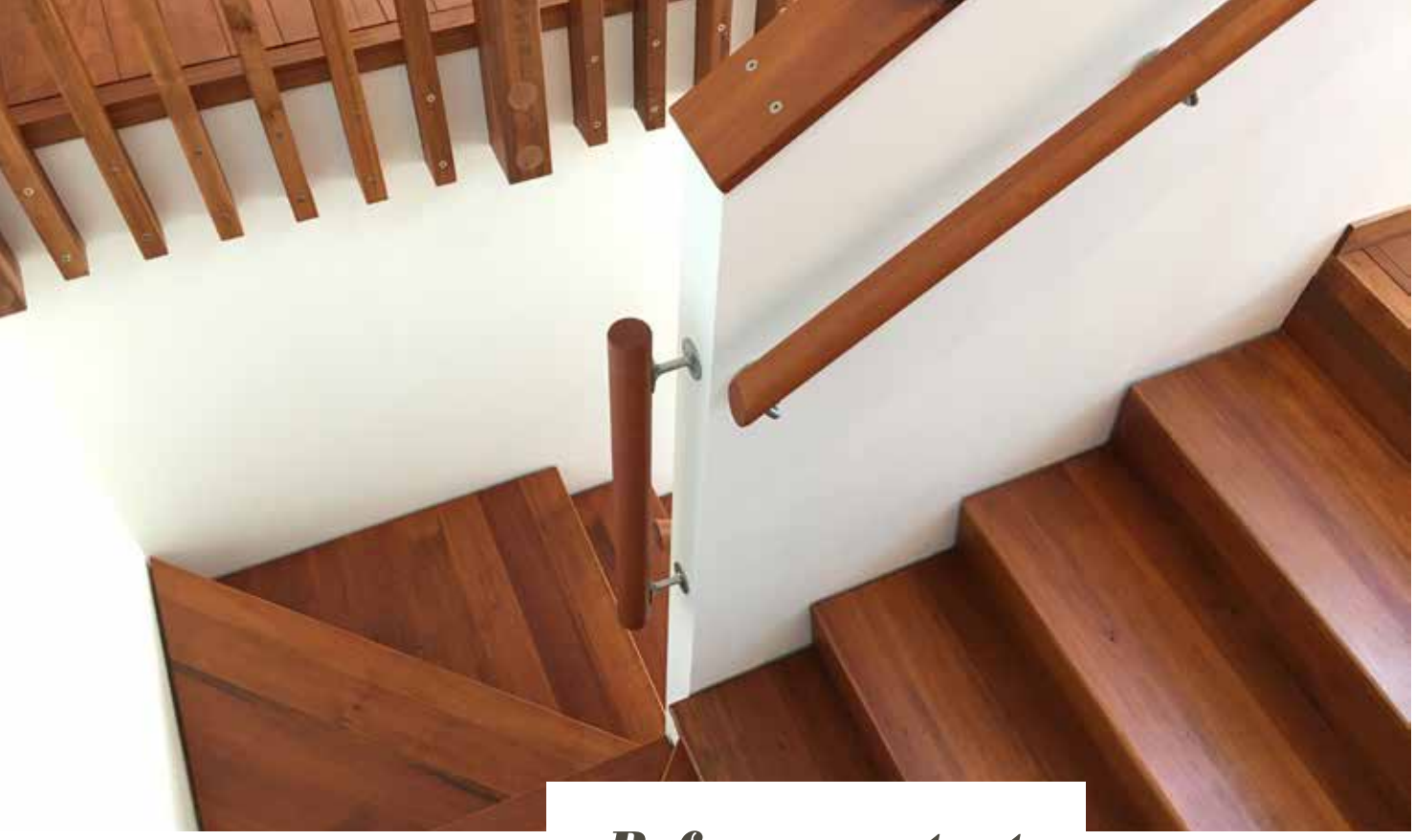
Our dedicated focus on Magnesium Oxide Boards ensures a tailored high-quality solution for plastering walls and ceilings.

Tested to meet international standards, the innovative materials within MGO Plastering Solutions are crafted to enhance the quality, efficiency, and effectiveness of construction projects utilising Magnesium Oxide Boards.

STRONG ADHESIVE

HIGH FLEXIBILITY

INTERIOR APPLICATION



Before you start

ENVIRONMENTAL CONDITIONS

Environmental management is required while conditioning the environment before application of MGO Plastering Solutions, during application of MGO Plastering Solutions and during the curing process for MGO Plastering Solutions.

Environment conditioning period to be 24 hours before application of MGO Plastering Solutions. Target temperature to be at 15 – 30°C and humidity not exceeding 70%.

Note: Failure to maintain correct environmental conditions throughout the curing and drying process will establish performance impacts and impacts to decorative appearance.

Equipment required to establish and maintain correct environmental conditions:

- Heating units with thermostat – electric heating is preferred.
- Temperature and Humidity recording device (Figure 9).

MAGNUM BOARD ASSESSMENT OF INSTALLATION & SURFACE PREPARATION

Magnum Board installation must be in accordance with technical literature available at:

www.healthbasedbuilding.com/magnum-board/interior-wall-lining

All Magnum Board surfaces must be thoroughly cleaned and free of dirt dust and grease before application of MGO Plastering Solutions.

Prepare MGO plastering solution away from direct sunlight in environmental conditions required at the time of application.

SAFETY PRECAUTIONS

Wear eye protection and dust mask when sanding, as product may cause eye irritation and inhalation of dust particles may cause respiratory irritation.

Products, Tools & Equipment Required

FIGURE 1

MGO-54

FIGURE 2

MGO-55

FIGURE 3

MGO-56

FIGURE 4

MAGNUM Mixer

FIGURE 5

Drill for Mixing Product

FIGURE 6

Vacuum Unit

FIGURE 7

Tool Cleaning Product

FIGURE 8

Rebate Mate

FIGURE 9

Temperature & Humidity Monitoring

FIGURE 10

Hawk

FIGURE 11

Scraper (for sharp edge removal on rebates)

FIGURE 12

100mm Broad Knife

FIGURE 13

Trowel 280 x 115

FIGURE 14

GIB External 90° Corner Trim (G1-w) & GIB Internal 90° Corner Trim (G2)

FIGURE 15

Trowel 200 x 75

FIGURE 16

Festool Sanding System

FIGURE 17

CANAM GoldCor Inside MGO-56 Corner Applicator

FIGURE 18

CANAM Compound Tube

FIGURE 19

CANAM Internal Trim Applicator

FIGURE 20

CANAM NyCor Finishing Kit – grey tip 2.5 inch number 3

FIGURE 21

CANAM Finishing Handle

FIGURE 22

CANAM NyCor Finishing Kit – green tip 3-inch

FIGURE 23

Festool Planex Drywall Sander (or similar)

FIGURE 24

ProForm All Purpose joint compound

Application Method

REBATED JOINS – WALL & CEILINGS

All Magnum Board surfaces to receive MGO Plastering Solutions must be thoroughly cleaned and free of dirt, dust, and grease. Rebated joins to be vacuumed. Magnum Board surfaces can be wiped clean using a damp cloth.

Application of MGO-54 Primer is required before application of MGO Plastering Products. Application of MGO-55 is required to back fill gaps in board joins before application of MGO-55 in the plastering process.

MGO-56 thickness to be a maximum of 500 microns per application.

1. Pour MGO-54 Primer into a roller tray and apply evenly using a roller along the rebated joint area and 50mm either side of the rebated joint area. Allow 30 minutes to dry.
2. MGO-55 is a two-part product with both parts contained separately in one container. Thoroughly mix part A and part B volumes.

   Mixing video available at: https://vimeo.com/748585697
3. Apply first coat of MGO-55. A volume of thoroughly mixed MGO-55 can be brought to the hawk (Figure 10) using broad knife to load (Figure 12). Application should be immediately after mixing. Fully populate the rebate with consistent pressure using trowel (Figure 15). Remove excess MGO-55 from Magnum Board surface alongside rebate using trowel (Figure 15). Apply MGO-55 to screw heads embedded below Magnum Board surface using broad knife (Figure 12). Allow 48 hours to fully cure. Lightly sand using 100 grit sandpaper and Festol sanding system (Figure 16).
4. Apply second coat of thoroughly mixed MGO-55 using the trowel (Figure 13) as per step 3 Ensure edges are feathered and rebate is fully populated. Allow 48 hours to cure. Lightly sand the surface using Festol System with 100 grit sandpaper (Figure 16). Sanding must include Magnum Board face where MGO-55 particulate is visible. Correct sanding will have the MGO-55 surface keyed up and ready for application of MGO-56.
5. Clean all surface dust from the sanded area using Festol vacuum (Figure 6) and damp cloth.
6. A volume of thoroughly mixed MGO-56 can be brought to the hawk (Figure 10) using the broad knife (Figure 12) and applied using the trowel (Figure 13) over MGO-55 using consistent pressure to achieve a maximum thickness of 500 microns. Smooth off either side using the trowel (Figure 13). Allow 6 hours to cure.
7. Apply MGO-56 over MGO-55 applied over fasteners using broad Knife (Figure 12). Allow 6 hours to cure.
8. Lightly sand MGO-56 surface using Festol System with 150 grit sandpaper (Figure 16) to smooth and key up for final coat of MGO-56.
9. Apply final coat of MGO-56 using trowel (Figure 13). using consistent pressure to achieve a maximum thickness of 500 microns. Smooth off either side using the trowel (Figure 13). Allow 12 hours to cure.
10. Lightly sand using 150 grit sandpaper and Festol sanding system (Figure 16) with side light to highlight imperfections in need of further sanding.

EXTERNAL CORNERS

All Magnum Board surfaces to receive MGO Plastering Solutions must be thoroughly cleaned and free of dirt, dust, and grease. Rebated joins to be vacuumed. Magnum Board surfaces can be wiped clean using a damp cloth.

Application of MGO-54 Primer is required before installation of external corner trims.

Application of MGO-55 is required to back fill gaps and populate rebates where they enter external corner junctions.

MGO-56 thickness to be a maximum of 500 microns per application.

1. Pour MGO-54 Primer into a roller tray and apply evenly using a roller 80mm either side of centre of the joint. Allow 30 minutes to dry.
2. Apply a layer of MGO-55 evenly to both sides of corner junction using the trowel (Figure 15).
3. Install GIB External Corner 90° Corner Trim (G1-w) (Figure 14). Ensure external corner trim is pressed securely into place. Then apply first layer of MGO-55 over the trim feathering 50mm either side of trim using trowel (Figure 15). Allow 48 hours to fully cure.
4. Lightly sand using 100 grit sandpaper and Festol sanding system (Figure 16).
5. Apply second layer of MGO-55, using trowel (Figure 15) Ensure edges are feathered
6. Lightly sand using 100 grit sandpaper and Festol sanding system (Figure 16). Sanding must include Magnum Board face where MGO-55 particulate is visible. Correct sanding will have the MGO-55 surface keyed up and ready for application of MGO-56. Clean all surface dust from the sanded area using Festol vacuum (Figure 6) and damp cloth.
7. Apply the first layer of thoroughly mixed MGO-56 using the trowel (Figure 13) over MGO-55 using consistent pressure to achieve a maximum thickness of 500 microns. feather off either side using the trowel (Figure 13). Allow 6 hours to cure.
8. Lightly sand using 150 grit sandpaper and Festol sanding system (Figure 16).
9. Apply a final layer of MGO-56 using a trowel (Figure 13) feathering 50mm beyond the previous application using consistent pressure to achieve a maximum thickness of 500 microns. Allow 12 hours to cure prior to final sanding.
10. Lightly sand using 150 grit sandpaper and Festol sanding system (Figure 16) with side light to highlight imperfections in need of further sanding.

CLEAN-UP

Area: Slippery when spilled. Restrict access to area until clean-up is completed. When cleaning up spills use PPE. Collect and dispose of spilled material according to local regulations.

Tools: Remove MGO-55 from tools using methylated spirits (Figure 7). Remove MGO-56 from tools using warm soapy water. Remove MGO-55 from the paddle mixer by soaking in methylated spirits overnight.

STORAGE

Store in a cool and dry well-ventilated weather-protected space above 0°C and below 50°C, up from concrete floors and away from direct sunlight. Store away from strong acids and high moisture. Keep container lids in place and closed.

INTERNAL CORNERS & CEILING JUNCTIONS

All Magnum Board surfaces to receive MGO Plastering Solutions must be thoroughly cleaned and free of dirt, dust, and grease. Rebated joins to be vacuumed. Magnum Board surfaces can be wiped clean using a damp cloth.

Application of MGO-54 Primer is required before installation of corner trims.
Application of MGO-55 is required to back fill gaps and populate rebates where they enter internal and external corner junctions.

Internal corners without rebates or gap filling require only MGO-56 throughout the entire application of trims and plastering process. MGO-56 thickness to be a maximum of 500 microns per application.

1. Pour MGO-54 Primer into a roller tray and apply evenly using a roller 80mm either side of centre of the joint. Allow 30 minutes to dry.
2. Apply MGO-56 to the internal corner using CANAM GoldCor Inside MGO-56 Corner Applicator & CANAM Compound Tool (Figures 17 & 18).
3. Install GIB Internal 90° Corner Trim (G2) (Figure 14).
4. Press GIB Internal 90° Corner Trim firmly into place using CANAM Internal Trim Applicator (Figure 19) attached to CANAM Finishing Handle (Figure 21).
5. Clean off excess MGO-56 using broad knife (Figure 12). Allow 6 hours to cure.
6. Reapply MGO-56 as per step 2 method
7. Smooth off MGO-56 using CANAM tool 2.5-inch number 3 attached to CANAM Finishing Handle (Figures 20 & 21). Allow 6 hours to cure.
8. Reapply MGO-56 as per step 2 method
9. Smooth off MGO-56 using CANAM tool 3-inch number 3 attached to CANAM Finishing Handle (Figures 22 & 21).
10. Feather off edges using broad knife (Figure 12). Allow 12 hours to cure.
11. Lightly sand using 150 grit sandpaper and Festol sanding system (Figure 16) with side light to highlight imperfections in need of further sanding.
12. Apply ProForm All Purpose joint compound (Figure 24) to fill marks, indentations, or surface imperfection such as pin hole in Magnum Board surface**. Do not apply ProForm All Purpose joint compound over any surface where MGO-56 has been applied**. Allow 12 hours to cure.
13. Sand all magnum board surfaces coated with ProForm All Purpose joint compound (Figure 24) using Festool Planex Drywall Sander with 180 grit sandpaper (Figure 23) to remove all excess ProForm all purpose joint compound, leaving surface ready for painting.