

Multiguard In-Depth Premix - Application Guidelines

In order to produce a high quality waterproofed concrete structure in accordance with manufacturer's written instruction, please follow the specification utilizing the materials and workmanship as outlined in this specification. The Multiguard In-Depth Premix - Application Guidelines are intended to provide a standard specification for general applications of Multiguard In-Depth Premix, should you require specific project related information please contact our Technical Department for assistance.

Safety Precautions:

- Use safety glasses at all times
- Use rubber gloves when handling materials
- Avoid contact with skin and eyes as materials become caustic when mixed with water.
- Follow all Multichem safety requirements as per product literature.

Limitations:

- Not recommended for moving joints.
- Requires wet curing for a minimum of 48 hours.
- Requires a minimum of 24 hours before exposure to freezing temperatures.
- May cause discoloration of concrete surfaces.

Material Needs

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| • Multiguard In-Depth Premix | • Chipping, chiseling or routing equipment |
| • Multiguard In-Depth Type A | • 2.5 cm margin trowel |
| • Multiguard In-Depth Type B | • Natural bristle concrete brush |
| • Multiguard In-Depth Mortar | • Safety goggles |
| • Multiguard In-Depth Plug | • Rubber Gloves |
| • Clean mixing pails | • Measuring tools (by volume) |
| • Clean mixing tools | • Water sprayer |
| • Clean water for mixing | |

Resource Literature Required:

Multiguard In-Depth Type A/B Surface Preparation Instructions
Multiguard In-Depth Crack and Joint Repair Instructions
Multiguard In-Depth Honeycomb Repair Instructions
Multiguard In-Depth Hole Repair Instructions

Step 1: Delivery and Storage

Deliver materials in unbroken original packages bearing the manufacturer's name and brand designation, batch number and date of manufacture. Store in a dry storage area to avoid contact with moisture.

Step 2: Mixing of Multiguard In-Depth Premix to Concrete

Add Multiguard In-Depth Premix (MIP) to green concrete at 2% of cementitious material or at 6kg/m³ of concrete. Mix the concrete for additional 5 minutes so that MIP is thoroughly mixed. Pour the MIP modified concrete to the formwork. Allow the concrete to set for required time of strength development.

Step 2: Inspection

Inspect the application surface looking for cracks, holes, honeycombs, loose concrete and any other impediments to surface preparation requirements. Concrete must be sound.

Step 3: Prepare Surface

Follow Multiguard In-Depth Type A/B Surface Preparation Instructions to prepare the concrete surface to an open pore and integrally sound condition.

Step 4: Prepare and Repair all Cracks and Construction Joints

Use Multiguard In-depth Existing Crack and Joint Repair Instructions to prepare and repair all existing cracks and joints.

Step 5: Clean and Saturate

Power-wash the entire repaired cracked/honeycombed/joint areas thoroughly. Insure that the concrete repair area is very well soaked. Remove all pooled water as Multichem recommends the concrete to an SSD condition (Saturated Surface Dry)

Step 6: Mix and Apply Multiguard In-Depth Type A

Mix Multiguard In-Depth Type A to a brushable slurry consistency using 5 parts powder to 2 parts clean water. Using a natural bristle concrete brush coat the entire wall using an aggressive circular motion and covering the entire surface area.

Should you wish a smoother finish after the application has been vigorously brushed on a trowel maybe used to provide a smoother finish.

Step 7: Allow Setting Time

Allow Multiguard In-Depth Type A to set (approximately 2 to 3 hours subject to application conditions).

Step 8: Mix and Apply Multiguard In-Depth Type B

Mix Multiguard In-Depth Type B to a brushable slurry consistency using 5 parts powder to 2 parts clean water. Using a natural bristle concrete brush coat the entire wall using an aggressive circular motion and covering the entire surface area.

Should you wish a smoother finish after the application has been vigorously brushed on a trowel maybe used to provide a smoother finish.

Step 9: Wet Cure and Protect

Once the final coat of Multiguard In-Depth Type B has set (roughly 2 to 3 hours from completion of application) wet the area. Keep the area damp for a minimum of 48 hours. Protect against sun, wind and rain for a minimum of 48 hours.