



Mega-crete™

OVERVIEW

Mega-crete Multipurpose Plaster is a smooth finishing plaster, which can be applied directly onto brick surfaces, concrete blocks, sand cement basecoats and plaster board. Mega-crete has been designed with breakthrough technology, allowing it to be applied by hand or machine in both coastal and inland areas. Mega-crete is a super lightweight, retardant gypsum plaster.

Mega-crete consists of superior quality gypsum, formulated with special additives to enhance working and setting characteristics, as well as to improve workability and coverage. When applied, Mega-crete produces a white, smooth finish on all internal applications. Mega-crete can be used as a single-coat multi-purpose plaster if it is applied up to 8-10 mm thick, Mega-crete can be applied in multiple coats if a thicker coat is desired.

PRODUCT HIGHLIGHTS

- Superior whiteness
- Excellent bonding
- Lightweight - reduces structural load
- High coverage rate
- Less rebound upon application
- Can be applied by hand or by machine
- Can be used in both coastal and non-coastal areas
- Direct application on bricks, concrete, sand cement base coats and plasterboards
- Smooth finish
- No shrinkage cracks
- Environmentally friendly
- No water curing required



TOOLS FOR APPLICATION



Mixing bucket



Hawk



Float



Steel trowel



Straight edge



Mixer

COVERAGE

The approximate coverage of a 40kg bag of MC

24m² if applied on a 3mm bed thickness

11m² if applied on a 5-6mm bed thickness

4.52m² if applied on a 12-15mm bed thickness

3.25m² if applied on a 15-20mm bed thickness

MANUAL MIXING APPLICATION

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- A) Always add powder to water and not water to powder to get a consistent mix of gypsum slurry.
- B) The water to plaster ratio should be maintained in the following proportions: 1:1.5 (i.e. 1 part water to 1.5 parts plaster). This ratio can be altered to achieve a more consistent mix of gypsum slurry.
- C) Use clean tools when mixing each batch. Clean tools after mixing and applying each batch for best results.
- D) Mix a batch that can be applied in under 45-60 minutes. Do not mix more than this.
- E) Any dried plaster from previous mixes should not be added to a new mix of Mega-crete.
- F) Mix Mega-crete plaster with an electric or hand mixer to get a consistent, lump-free gypsum slurry.



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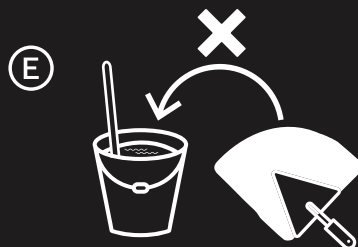
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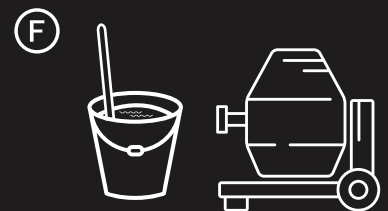
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MANUAL APPLICATION METHOD

MULTI COAT APPLICATION ON BRICKS, CONCRETE AND CONCRETE BLOCKS

Use a wire brush to ensure that dust and all loose particles of cement have been removed. Make sure that there are no butts, deeper than 3mm thick, on the surface that Mega-crete is applied to. Apply a thin coat of Mega-crete gypsum slurry directly onto the given surface with a steel trowel. This should be followed by the immediate application of a filler coat, which should not exceed 8-10 mm. Applicators may use straight-edge trowels to achieve a level coat. The first Mega-crete application acts as a base coat and must be finished with a final coat once completely dry.

Once the base coat is dry, use the same method of application to achieve the final level of thickness required.

For a smooth finish, allow the plaster to set for approximately 35-60 minutes (depending on the weather conditions). Once the plaster is set to float and finish, use a sponge to moisten the application surface and use a rubber float to level the area and bring the aggregate fines to the surface. Then, finish the plaster off with a steel trowel.

Allow the plaster to set for 24-72 hours before applying any paint. It should be noted that Mega-crete can completely dry within 24 hours. However, the final setting and drying times are weather-dependent, and the Mega-crete surface has to be completely dry before any paint is applied.

Concrete and brick surfaces must be properly cured (by applying water on surface) before applying gypsum plaster. All holes and cracks on the surface of the brick wall should be repaired before plastering. Should you wish to conceal electrical conduits and plumbing lines, ensure that they are all placed inside the brick work. Check the verticality of wall surfaces using a plumb level and remove any undulations if any exist. 10 minutes before plaster application, apply clean water on both brick and RCC surfaces to control the suction.

MANUAL APPLICATION METHOD

ONE-COAT APPLICATION ON SAND CEMENT BASE COATS

Use a wire brush to ensure that dust and all loose particles of cement have been removed. Make sure that there are no butts, deeper than 3mm thick, on the surface that Mega-crete is applied to. Make sure that surfaces are completely dry before applying Mega-crete.

Moisten surfaces with a wet brush. Apply a thin coat of Mega-crete gypsum slurry directly onto the surface with a steel trowel. A filler coat should be applied immediately after this.

For a smooth finish, allow the plaster to set for approximately 35–60 minutes (depending on the weather conditions). Once the plaster is set to float and finish, use a sponge to moisten the application surface, and use a rubber float to level the area and bring the aggregate fines to the surface. Then, finish the plaster off with a steel trowel.

MANUAL APPLICATION METHOD

ONE-COAT APPLICATION ON PLASTERBOARDS

After plasterboard installation, tack all the joints – where Mega-crete is to be applied – with a wire scrim.

Firmly apply the Mega-crete gypsum slurry directly onto the plasterboard surface, with a steel trowel, and add a filler coat immediately after this.

For a smooth finish, allow the plaster to set for approximately 35–60 minutes (depending on the weather conditions). Once the plaster is set to float and finish, use a sponge to moisten the application surface and use a rubber float to level the area and bring the aggregate fines to the surface. Then finish the plaster off with a steel trowel.

MACHINE APPLICATION METHOD

Mix Mega-crete with water – as per machine-user manual instructions. Work breaks, during which mixed plaster remains stationary in the machine and delivery hoses, should not exceed 15 minutes. The equipment must be thoroughly cleaned at the end of each day.

MEGA-CRETE PRODUCT WARRANTY

Mega-crete is warranted to perform with no shrinkage cracks and carries a 10-year warranty. Mega-crete performs within published parameters – when applied in accordance with our specifications. Mega-crete carries a 10-year warranty, provided that the substructures are as per the manufacturer's guidelines. Mega-crete has been tested on-site in order to demonstrate product integrity and simplicity. Mega-crete offers on-site and off-site project support through a dedicated technical support team.

DO'S AND DON'TS

- A) All surfaces must be clean and free of dust, grease and oil before applying Mega-crete.
- B) Mega-crete gypsum plaster is not meant for human consumption.
- C) Mega-crete must be stored dry, free from moisture and in accordance with our guidelines.
- D) Mega-crete is for internal surfaces only.
- E) Mega-crete has a shelf life of 12 months, and must be used within its life span. Any Mega-crete bag that exceeds its life span should be disposed in accordance with all applicable federal, state and local regulations.

FIRST AID MEASURES

EYE CONTACT

Wash eyes thoroughly, with large amounts of water, for at least fifteen minutes. Seek medical attention.

SKIN CONTACT

Wash skin with soap and water.

INHALATION

Move away from the dust cloud and find fresh air. Seek immediate medical attention if breathing is difficult.

INGESTION

Mega-crete is not for human consumption. Do not give anything by mouth to an unconscious person. Do not induce vomiting. Get medical attention immediately.

HANDLING AND STORAGE

HANDLING

Avoid exposure through the use of appropriate engineering controls and good industrial hygiene practices.

STORAGE

Store in a moderately cool, dry and well-ventilated area, away from direct sources of heat.

STANDARDS

Mega-crete complies with IS:2547 (Part I & II) - 1976 standard.

Mega-crete is tested by Contest Laboratories South Africa for its smoothness, whiteness, workability and coverage over other plasters.

Mega-crete is approved by DULUX Paints South Africa for their primers.