

SOLIDFAST MMA FREEZA-REP

Methyl Methacrylate Grout System

Solidfast MMA Freeza-Rep is a fast curing, hard wearing, chemical resistant methyl methacrylate resin system for non-shrink polymer grouts specifically designed for repairing and grouting in freezing conditions.

Solidfast MMA Freeza-Rep forms a non-shrink, durable polymer grout that has very high bond, compressive and flexural strength, resists freeze thaw damage, and has excellent chemical resistance.

BENEFITS:



*Extremely short curing time.
After two hours full mechanical
and chemical resistance.*



Excellent chemical resistance.



*High mechanical resistance.
Excellent flexibility*



HACCP compliant.



*Outstanding resistance to
ageing and weathering.
Good UV resistance.*



*Application is possible on
various substrates.*

TECHNICAL DETAILS

Compressive Strength	>50 MPa	BS6319
Tensile Strength	>15 MPa	
Flexural Strength	>20 MPa	
Concrete Adhesion	>1.5 MPa (Concrete failure)	ASTM D7234
Abrasion Resistance	Class AR 1 – Heavy duty	
Fire Behaviour	E _{fl}	EN ISO 7783-2
Temperature Resistance	-25°C to 45°C (60°C for short periods, e.g. for cleaning purposes)	EN ISO 13501
Chemical Resistance	Refer to chemical chart	
Abrasion Resistance	Class AR 1 - Heavy duty	
Curing Time	1 hr	
Thickness	10 mm	
Kit Size	12.9 L	

APPLICATIONS:

- Cold/Freezer rooms
- Dry production and manufacturing areas
- Warehouses
- Car workshops
- Hangars
- Pharmaceutical industry
- Corridors

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SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials. The substrate must be dry and the moisture content below 4 CM-%. An adequate damp proof membrane must be installed underneath of the concrete slab.

PREPARATION

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding, abrasive blasting or scarifying to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

Ensure application conditions below 0 °C. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Do not mix the product at ambient conditions as it will react very quickly. Allow the three components to acclimatize in the application area conditions (e.g. freezer room, cold room) before mixing and application.

APPLICATION

Mixing

Open the aggregate bags before the mixing starts to ensure no time is wasted between mixes/kits. Set up the mixing machine as close to the application area as possible.

Mix Solidfast MMA Freeza-Rep by first decanting the activator powder into the resin container followed by a thorough mix with a mechanical mixer. Once the powder is fully dispersed pour the mixture into a 25L bucket followed immediately by the addition of the aggregate. Mix thoroughly with a mechanical mixer ensuring the mixing paddle scrapes the sides of the mixing vessel. The mix should not be kept in the container as it will start to cure rapidly.

Placing

Pour the mixed Solidfast MMA Freeza-Rep to full depth from one side of the repair to the other. Finish as desired by trowel.

MAINTENANCE

Regular cleaning extends the service life of the MMA system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID). Please refer to full cleaning regime for Solidfast MMA flooring systems.

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHS Act No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.