

UREMORT 5000

HEAVY DUTY POLYURETHANE MORTAR



DESCRIPTION

UREMORT 5000 is a three component polyurethane mortar system comprising of resin, hardener and aggregates. It is designed for application on floors in food and other allied industries, it is an optimum solution for helipads when over coated by UV and abrasion resistant polyurethane coating like CEMDECK ALIPHATIC It can be applied by trowel at thickness of 4mm and above.

FEATURES & BENEFITS:

- Offers wet / dry slip resistance.
- Easy to clean
- Non-dusting.
- Durable and long life.
- Easy to clean.
- Will not support bacterial growth.
- Non-Staining.
- Offers excellent resistance to abrasion and impact.
- Resistant to wide temperature fluctuations. Withstands temperatures from -40°C to $+120^{\circ}\text{C}$.

CHEMICAL RESISTANCE:

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|--------------------------|-------------|
| Fats, oils and sugars | : Excellent |
| Mineral oils, kerosene | : Excellent |
| Gasoline & brake fluids | : Excellent |
| Dilute acids and alkalis | : Excellent |
| Most organic solvents | : Excellent |

TECHNICAL INFORMATION

Typical engineering Data:

The following results were developed at laboratory conditions after curing the sample for 28 days at 20°C .

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| Density (BS 6319 part.5)..... | 2095 kg/m^3 |
| Compressive Strength (BS 6319 part.2)..... | 58 N/mm^2 |
| Tensile strength (ISO R 527)..... | 7 N/mm^2 |
| Flexural strength (ISO 178)..... | 15 N/mm^2 |
| Dynamic elastic modulus (ASTM C 597-83) | 20 KN/mm^2 |
| Bond strength to concrete (BS 6319: Part 4) | Concrete failure |
| Thermal conductivity | 1.1 $\text{W}/\text{m}^{\circ}\text{C}$ |
| Water absorption | 0ml |

DIRECTIONS FOR USE:

UREMORT 5000 can be applied on concrete or polymer modified screeds. New concrete must be a minimum of 7 days old and polymer modified screeds 3 days old. All substrates must be clean and free from dust and loose particles.

Surface Preparation: All contaminants such as oil, curing compounds, paints, laitance unsound concrete etc must be removed. Surface must be prepared by grinding, or vacuum shot blasting. Acid etching is not recommended.

Priming: The prepared substrate should be primed with UREPRIME 21 . UREPRIME 21 is a single component polyurethane based resin, solvent free, low viscosity primer & sealer.

Mixing: The hardener shall be poured into the base resin in the mixing vessel and shall be mixed thoroughly for 1-2 minutes using heavy-duty slow speed drilling machine fitted with paddle. Aggregate shall then be added slowly and mixed for 3-5 minutes to achieve a uniform consistency

Application: The mixed area should be placed immediately. Fill routed out cracks and out joints with UREMORT 5000, then apply the mortar over the rest of the floor. The mortar shall be applied when the primer is in "tacky" stage. Discharge material from the mixer and place on to floor. For batching, spread with a trowel, Come-A-Long, or square ended shovel to a thickness of about 3 mm higher than the final desired height of the overlay. Compact and finish by hand or machine trowel.

CLEAN – UP

Clean all tools and equipment with solvents such as CEMTEC SOLVENT, Xylene, Toluene or MEK. Do not allow the resin to harden on equipment.

SHELF LIFE

UREMORT 5000 has a shelf life of 1 year when stored under dry conditions and below 35°C .

PRECAUTIONS / LIMITATIONS

- Wear gloves, safety goggles and safety shoes while mixing and applying UREMORT 5000.
- Avoid contact with eyes, skin. If ingested or contact with eyes has occurred seek immediate medical attention.
- MSDS is available on request.

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| COVERAGE | It would cover 2.6 square meter at 5 mm thickness. |
| PACKAGING | UREMORT 5000 is packed in 27 kgs kit |
| COLOR | Available in Grey, Maroon and beige colors. |

Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.

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