

Pool Tile Adhesive

DESCRIPTION • *MegaFix* is the ultimate in adhesion and workability for tiling jobs with the most demanding requirements. Polymer-fortified and modified with unique admixtures and inorganic chemicals, *MegaFix* is the ideal thin-set, Portland cement-based mortar for applications where significant flexural deformations and persistent water exposure are of concern.

USES • *MegaFix* is used to adhere ceramic, mosaic, natural stone, pre-cast terrazzo, marble and pavers to substrates subject to high deflection. Because of its high level of water-resistance, *MegaFix* is suitable for setting tiles in swimming pools. *MegaFix* can also be used as a multi-purpose thin-set mortar for bonding tile to exterior grade plywood, some resilient flooring surfaces and Formica. *MegaFix* also offers exceptional bond strength to conventional thin-set mortar substrates such as concrete, concrete block, wonder-board, gypsum drywall and existing ceramic tile.

ADVANTAGES •

- ✓ Flexible thin-set mortar for all tiles.
- ✓ Protects tile installation from substrate deflection.
- ✓ Can be used for interior and exterior installations such as kitchens, patios, swimming pools, shower rooms and abattoirs.
- ✓ Specially formulated, high-performance blend.
- ✓ Exceptional working characteristics, coverage, open-time pot life.
- ✓ Extreme water leakage resistance and lower permeability.
- ✓ Easy to use and handle.
- ✓ Shrinkage cracks and creep resilient.

TECHNICAL DATA •

Property	Test Method	Result
Tensile Strength	ASTM C-78	1,418 psi
Shear Strength	ASTM C-109	521 psi
Flexural Strength	ASTM C-78	2,225 psi
Pot Life		45 min.
Min. Set Time		24 Hrs
VOC	USEPA 24	0 g/L

Meets ANSI A118.4 and CTI 64-1 specification.

COVERAGE • Approximately 4-5 sq meter per 25 kg bag when applied at 2 mm average thickness.

LIMITATIONS • Do not mix or apply if ambient temperature is expected to drop below 5°C during installation or in the proceeding 24 hours, or if rain is expected in the proceeding 24-hour period after

application. Do not mix or apply when ambient temperature is expected to exceed 35°C. Avoid working in direct sunlight. Temporary protection from weather and other damage must be provided at all times until the entire job is completed.

SURFACE PREPARATION • All substrates must be structurally sound with deflection not to exceed 1/360 of the span. When bonding tile to a concrete slab or other suitable surfaces, they must be free from oil, grease, dust, paint, form release and curing compounds. Glossy and painted surfaces must be sanded, stripped, and cleaned of all contaminants. All contaminants must be removed prior to the installation of *MegaFix* and tile.

Concrete surfaces must be fully cured, free of efflorescence, and accepting of water penetration in order to form a good bond. Test by sprinkling water on the substrate; water beading indicates the presence of contaminants which could cause loss of adhesion. Concrete surfaces must not be subject to negative pressure. Rough concrete surfaces, such as those with a brushed or broomed finish, are necessary to insure good mechanical keying. Smooth concrete surfaces should be roughened prior to installation. All expansion, control, cold and construction joints must be brought through the tile and filled with an appropriate elastomeric sealant. Do not install if ambient and surface temperature is expected to be below 10°C or above 38°C for the proceeding 72 hours after installation.

MIXING • Mix cool, clean water and *MegaFix* powder together to a smooth paste consistency. Use approximately 6 liters of water per 25 kg bag of *MegaFix*. Let slack 5 to 10 minutes, stir occasionally during use. Do not re-temper. When properly mixed, trowelled ridges of *MegaFix* will stand little or no slump.

Although hand mixing is adequate, for optimum results an electric motor with an appropriate type-mixing blade should be used at low speeds (150-200 rpm).

APPLICATION • Wet the surface. Use proper sized notched trowel to ensure full coverage of *MegaFix* under tiles. Apply a skim coat of the grout with flat side of trowel held at a 35° to 40° angle; this forces the material into irregularities in the surface for maximum adhesion. Then apply an additional quantity of grout with notched side of trowel. Press tiles firmly into place in a perpendicular direction and slight twisting motion; this flattens the ridges in the grout and insures maximum coverage. Adjust tiles promptly and beat in with block or rubber mallet. Periodically pull up and check a recently placed tile

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to ensure that the proper amount of grout is being used. Grout bed thickness should be 1.5 mm to 3 mm. Do not spread more grout material than can be tiled in approximately 20 minutes or while material has wet tack. If too dry, remove and re-place with fresh material. Allow tiled installations to cure 24 to 72 hours before grouting.

CURING • *MegaFix* was designed to be air cured. A minimum cure is obtainable in 24 hours.

CLEANING • Clean all tools and equipment promptly with clean water.

STORAGE • Keep material covered and off the ground to prevent exposure to moisture. Store in a dry area. When stored at specified conditions in original unopened packaging, shelf life is 12 months from date of purchase.

SAFETY PRECAUTIONS • KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. Portland cement and silica-based products present health hazards. Irritating to eyes and skin. Use adequate ventilation and do not breath dust. Contains silica aggregates (quartz). May cause delayed lung injury (silicosis). Use neoprene gloves and a dust mask when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water. Skin – Wash with soap and water. Inhalation – If experience difficulty breathing or if inhaled, move to fresh air. If symptoms persist, seek medical attention.

PACKAGING • 25 kg paper bags.

Creative Concrete Concepts

PO Box 925794, Amman 1110, Jordan; Tel +962-6-487-4078, Fax +962-6-488-9133 • PO Box 91234, City of Industry, CA 91715-1234, USA; Tel +1-909-266-0709, Fax +1-909-266-0711 • PO Box 31017, Sharjah, UAE; Tel +971-6-532-1119, Fax +971-6-532-8833