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MANUFACTURERS OF HIGH PERFORMANCE
EPOXY & POLYURETHANE FLOORING SYSTEMS

POLYBOND - 2090

EPOXY GEL PATCH / STONE EPOXY / THIN SET

DESCRIPTION:

Polybond-2090 is a 100%, two-component, equal volume epoxy system in combination with thoroughly dispersed fillers and a compatible hardener. It had the consistency of peanut butter. Due to its excellent adhesion, overall physical properties and characteristics, formula Polybond 2090 is most versatile and accepted as a general purpose mortar adhesive material that can even be placed on vertical and overhead surfaces without sagging.

USES:

Versatile Epoxy compound for joining, sealing, water proofing, bonding, patching, coving, concrete repair compound (CRC) for natural stones, granite, marble, and quartz surfaces.

- Mixed components are thixotropic (non-sagging)
- Cured product is non-shrinking
- Mortar is easy to work with, level, and smooth, also has good tack properties
- Mortar exhibits excellent wetting and adhesion to concrete, masonry, steel, and other structural materials

PROPERTIES:

Mixing Ratio	1:1 by volume
Pot life @ 72°F (one pound volume at 72°F)	1-2 hours (for)
Cure Time (depending on mass, air and surface temperature)	6-8 hours
Compressive strength (Mortar) (ASTMC-695)	7000 psi
Tensile Elongation % (ASTMD-638)	3 %
Hardness Shore D (ASTMD-2240)	70
Tensile Shear-	
3 days at 77oF	1000 psi
28 days at 77oF	1800 psi

CHEMICAL PROPERTIES:

Cured Polybond-2090 is resistant to:

- Water (fresh or salt)
- Salts
- Brine solutions
- Detergents
- Soaps

SURFACE PREPARATION:

Area must be clean and dry. Dirt, oil, rust, dust, grease, old coatings and other contamination should be removed. Area may be cleaned using acid-etching solutions. It is recommended to sandblast steel surfaces, acid-etch dense concrete, and remove glaze from glazed ceramic tile.

MIXING:

Base and hardener components are to be blended in equal volumes. When preparing less than a premeasured unit, use separate paper cups for measuring.

Stir each component separately before starting.

Stir and blend together thoroughly until a uniform, streak-free color appears.

Always use clean mixing receptacles.

Mixing can be manually with a stout wood stick or using a slow speed drill equipped with mixing propeller or cross-bar. Mixing can also be accomplished by placing both components onto flat tray and mixing with a trowel.

Uniform dispersion of both components is important to assure proper curing and development of optimum chemical and physical properties.

APPLICATION:

Amount or thickness of Polybond-2090 mortar to be applied depends on individual treatment, item to be joined, sealed, filled, or repaired. Sufficient material must be used when joining to assure uniform contact and maximum adhesive strength.

When used as an adhesive where possible, "butter" both surfaces and then bring into close contact, remove excess immediately. Depending upon cross-section, positioning and weight, clamping may not be needed. Clamping is not always needed to assure cure for adhesive bond as is typical with conventional glues or cements.

When used as a mortar or surfacing, fill entire void, opening or defect following conventional application methods for this type of treatment. Mortar should be pressed firmly to avoid bridging. Application can be by trowel, knife, or screened bar. Feather-edges are best avoided. Square cut shoulder, regardless of whether on walls, floor, or other surfaces are recommended. On deep voids or crevices, Polybond-2090 can be injected with conventional caulking gun equipment.

Polybond-2090 mortars are easily smoothed by keeping application tools clean and lightly wetted with mineral spirits. The latter acts as a skinning agent. Its use is intended strictly for surface finishing. Solvent additions of any type are not recommended for blending with this mortar preparation.

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Tools and other equipment should be cleaned promptly while the mortar remains uncured. Solvents such as xylol, toluol, or cellosolve are most effective. Remove all excess residues promptly while Polybond -2090 mortar is soft and uncured.

CURING:

Polybond-2090 mortars are self-curing when both base and hardener have been thoroughly combined. Initial cure at normal air and surface temperatures takes place within 6 to 8 hours, with a final cure approximately 48 to 72 hours.

Clamps, holding devices, traffic, or chemical spillage should be maintained or restricted until initial cure (light duty) or final cure (heavy duty) has been completed.

PACKAGING:

2 gallon units (1 gallon Part A + 1 gallon Part B)
10 gallon units (5 gallon Part A + 5 gallon Part B)

NON-WARRANTY

This product is made under strict quality control procedures of Delta Polymers, Inc. No guarantee is given or implied. We assume no responsibility for coverage, performance or injuries resulting from use. Liability if any is limited to replacement of products which are defective in manufacture. No other warranty or guarantee of any kind is made by the seller, express or implied, statutory by operation or law or otherwise, including merchantability and fitness for a particular purpose.

CAUTION

Avoid contact with eyes and prolonged contact with skin. In case of eye contact, flush with plenty of water for at least 15 minutes and seek medical attention. For skin wash with soap and water. Keep away from children. For details see product data sheet and MSDS.

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