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MANUFACTURERS OF HIGH PERFORMANCE
EPOXY & POLYURETHANE FLOORING SYSTEMS

PolyFlex - 5050

Flexible epoxy control joint sealer/adhesive

DESCRIPTION:

PolyFlex-5050 is a 100% solid epoxy system which is primarily used as a sealer and filler for masonry, saw cut control joints and grooves. PolyFlex-5050 is a unique epoxy system which is moisture insensitive, flexible and self leveling.

USES:

PolyFlex-5050 is used for:

- Sealing interior joints,
- Sealing saw cut joints in long strip flooring and in other large concrete pours.

Because it reinforces the joint and edges and as it has excellent bond with the concrete it prevents deterioration due to water and other chemicals.

PHYSICAL PROPERTIES:

Pot life ASHTDT-237	40 minutes
Curing Temperature Limit	40°F and up.
Initial Set Time @ 75°F	6-8 hours.
Final Cure Time @ 75°F	3 days.
Mixing Ratio by volume	1 Base : 1 Hardener
Mixed Viscosity @ 75°F CPS.ASTMD-2393	4000-5000
Mixed viscosity @ 75°F for Gun Grade	Gel
Tensile Strength PSI ASTMD-638	400-600
Tensile Elongation % ASTMD-638	100-120
Shore A Hardness ASTMD-2040	80 ± 10
Bond To Concrete PSI ASTM C-321	220-265
Water Absorption % ASTM C-413	0.19
Abrasion Resistance ASTMD-1044	0.18 gm. max
C-10 Wheel,1000 gm. load	1000 cycles
Chemical Resistance MIL D-3134	Passes

Good chemical resistance against mild acids, alkalis, petroleum based fuels and steam. For specific requirements, contact Delta Polymers, Inc.

SURFACE PREPARATION:

Concrete surface should be free from oil, grease and loose paint. Concrete surface should be sand blasted, blast tracked, and if new, should be acid etched with 25% diluted muriatic acid and then rinsed three times with fresh water.

Steel should be free from rust, oil, grease and loose paint. Steel should be sand blasted to white metal.

MIXING:

Premix each part separately. Add one part Base and one part Hardener by volume. Mix thoroughly for two to three minutes to a uniform color.

APPLICATION:

A- The joints should be free from dirt, dust, moisture and any foreign material. Use rotary power brush or vacuum or compressed air.

B- Tape both edges with masking tape.

C- Use bond breaker in the bottom of the groove such as backer rod or sand.

D- The mixed material can be poured either from the can with conventional caulking gun or disposable plastic dispenser. As the material starts curing you may have to apply the second pour because it may make the groove dish or concave.

E- Remove the tape when the material is still wet.

F- Do Not use PolyFlex-5050 in expansion joints.

CLEANING:

Clean your tools with xylol-mineral spirit or paint thinner. Cured PolyFlex can be removed mechanically.

PACKAGING:

2 Gallon Units, 10 Gallon Units.

COVERAGE:

One mixed gallon of PolyFlex-5050 will provide 231 cubic inches of material.

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.