

## TECHNICAL DATA SHEET



# PX-90 POLYUREA JOINT FILL

The new PX-90 formula is a two-component, 1:1 ratio, self-leveling, moisture-insensitive, non-staining polyurea elastomeric joint and crack filler. This 100% solids, technologically advanced material is designed for concrete with low to medium thermal cycling.

PX-90 cures quickly and uniformly in applications ranging from -20°F to 130°F. The product becomes tack-free in 5 to 15 minutes, and application sites can be reopened to vehicular or pedestrian traffic within 1 hour.

### APPLICATIONS

PE-90 is designed for industrial flooring applications subjected to heavy vehicle traffic, such as forklifts or steel-wheeled carts.

It is ideal for filling random interior cracks, repairing damaged control joints, or protecting new concrete floors. PE-90 is a semi-rigid material that allows for minimal slab movement while being strong enough to protect the vertical edges of concrete from spalling under extreme loads. Suitable for both interior and exterior applications (recommended for exterior applications where minimal joint movement or cracking due to thermal cycling is expected). Although exposure to UV light may cause slight discoloration, the physical properties of the material remain unaffected.

- Industrial facilities
- Warehouse floors
- Manufacturing facilities
- Pulp and paper mills
- Bottling and canning facilities
- Airports
- Water and wastewater treatment
- Food processing facilities

### ADVANTAGES

- Moisture insensitive – Works in humid conditions.
- Semi-rigid protection – Prevents joint edge damage.
- 100% solids, VOC-free – Safe and eco-friendly.
- Polishable without stains – Leaves no marks.
- USDA and FDA compliant – Suitable for food industries.
- Ready in 60 minutes – Quick return to service.
- Cures between 30°F and 130°F – Versatile temperature range.
- Odorless and non-toxic – Safe for indoor use.
- Petrochemical resistant – Durable under heavy loads.

PROPERTY	VALUE
A+B colors	Varies, can be tinted
Viscosity (mixed)	Self-leveling
Mixing ratio (by volume)	1:1
Shelf Life: 100 grams at 74°F	35 seconds
Tack-free (thin film) at 74°F	5 - 15 minutes
Initial cure	15 minutes
Final cure	60 minutes
Elongation % (ASTM D-412)	180 - 200
Tensile Strength, psi (ASTM D-412)	900 - 1000
Dureza Shore "A" (ASTM D-2240)	90-93 A
Tensile Strength, Matrix B (ASTM D-624)	148
VOC content (A and B)	0%

### Available in

22 oz  
Cartridges  
10-gallon Kits

**Shelf Life** 1 year in original unopened container.

### Storage Conditions

Recommended storage temperature is between 75°F to 85°F. Do not store below 55°F or above 85°F.

### Consistency

Pourable, self-leveling liquid.

### Pot Life

Approx. 30-35 seconds (100 gram mass)

**Appearance** Semi clear, Custom Color Matching Available



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## PX-90

## POLYUREA JOINT FILL

## MATERIAL COVERAGE PER GALLON

Consider approximately 15% waste due to uneven joint depth and width, material overflow, nozzle waste, etc.

	JOINT WIDTH						
	1/8"	3/16"	1/4"	3/8"	1/2"	3/4"	1"
1/8"	1232	821	616	411	308	205	154
1/4"	616	411	308	205	154	103	77
1/2"	308	205	154	103	77	51	39
3/4"	205	137	103	68	51	34	26
1"	154	103	77	51	39	26	19
1 1/2"	103	68	51	34	26	19	13
2"	77	51	39	26	19	13	10
2 1/2"	62	41	31	21	15	10	7
3"	51	34	26	17	13	8	6
4"	39	26	19	13	10	7	5

## CARTRIDGE CALCULATION

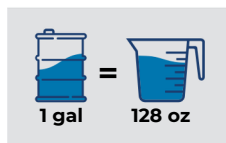
- Multiply the number of gallons by 128

(oz): **10 gal x 128 oz = 1280 oz**

- Divide the result by the cartridge size (22

oz):

**1280 oz ÷ 22 oz = 58 cartridges**



## CHEMICAL RESISTANCE

Test Procedure; ASTM D-1308 @72°F

R=Recommend

RC=Recommend Conditional =some swelling or discoloration

N=Not Recommend

1=Some discoloration only

## Chemical

Acetic Acid 10 %

Acetone

Battery Acid (Sulfuric Acid)

Brake fluid

Chlorine (2,000 ppm in water)

Citric Acid

Gasoline

Hydraulic Oil

Methanol (5%) Gasoline

Motor Oil

Toluene

Vinegar

Water

Xylene

## Result

R

RC

RC

R

R

R

R

R-1

RC

R-1

RC

R

R

R

## Application Recommendations

- Surface must be clean, dry, and free of contaminants.
- Use a 1:1 ratio metering pump for bulk mixing.
- Mix only Part B before loading into the pump.
- Do not leave material in the mixing nozzle for more than 30 seconds to avoid clogging.

## Limitations

- Do not dilute; solvents prevent proper curing.
- Do not seal cracks under hydrostatic pressure.
- Acts as a vapor barrier after curing.
- Concrete must cure for 28 days before application.

## Clean-Up

- Dispose of cured material without restrictions.
- Mix excess liquid Parts A and B, allow to cure, and discard as usual.
- Cured material can be peeled from tools and containers.
- Clean metal tools within one hour by cutting or peeling off cured material.

## Safety and Handling

- SDS provided upon purchase or request.
- Wear protective gear: long-sleeved coveralls, gloves, splash guards, and boots.
- Avoid high heat, open flames, and ingestion.
- Keep out of reach of children.

## First Aid

- Eyes: Rinse with plenty of water for 15 minutes and seek medical help.
- Respiratory Issues: Move to fresh air.
- Skin Contact: Wipe off with a dry cloth and wash with soap and water.
- Do not use solvents on skin. Wash contaminated clothing before reuse.

## Warranty

- CPR MATERIALS guarantees its products are free from manufacturing defects.
- No other warranties, express or implied, are offered.
- CPR MATERIALS is not liable for any damages, including consequential damages

