



PRIME SEAL 5000 SEMI-RIGID

DESCRIPTION AND USES:

PRIME SEAL 5000 Semi-Rigid is a two component, 100% solids, epoxy joint sealant for:

- Sealing control joints in industrial floors
- Sealing construction joints in industrial floors
- Sealing random cracks in industrial floors

ADVANTAGES:

- 53% Elongation allows for some movement
- Won't "weld" pavement together
- Prevents joint sidewall "spalling" and chipping
- Easy 1:1 mix ratio
- Self leveling or caulking grades available
- Flows into joints as narrow as 1/16"
- USDA approved

PACKAGING:

- 22 ounce "Quick Mix" Cartridges (caulk grade only)
- 1 Gallon Units
- 2 Gallon Units
- 10 Gallon Units

TYPICAL PHYSICAL PROPERTIES AT 74°F (23°C):

MIX RATIO A:B	1:1 By Volume	
VISCOSITY	(standard) (caulk grade)	700 c.p.s. Non Sag Gel
COLOR	(standard) (caulk grade)	Concrete Gray or Clear Concrete Gray
POT LIFE	60 grams	1 gallon
90°F (32°C)	18 minutes	8 minutes
73°F (23°C)	32 minutes	16 minutes
50°F (10°C)	1 hr., 22 minutes	38 minutes
COVERAGE		
(Neat)	231 cubic inches per gallon	
(w/ 3 parts Prime Blend Sand)	508 cubic inches per gallon	
COMPRESSIVE STRENGTH	ASTM D-575	558 psi
COMPRESSIVE MOE	ASTM D-575	1,742 psi (Δ60%)
TENSILE STRENGTH	ASTM D-638	1,231 psi
BOND STRENGTH (2-day)	ASTM C-882	1,013 psi
ELONGATION	ASTM D-638	53%
SHORE HARDNESS (A SCALE)	ASTM D-2240	80
WATER ABSORPTION	ASTM D-570	<1%

APPLICATION TECHNIQUES:

MATERIAL CONDITIONING: Pre-condition materials to 65° - 85° F (19° - 30° C) before using.

SURFACE PREPARATION: Surface must be clean and free of dust, oil, grease, laitance, curing compounds, or any other contaminants. This should be achieved by wire brush, clean out saw, sandblasting, or other mechanical means.

MIXING CONSIDERATIONS: *Pre-mix each component.* Measure exactly 1 part "A" to 1 part "B" by volume into a clean container. Only mix the amount of material that can be used within the pot life. Thoroughly mix using a low speed drill with a mixing paddle (never mix by hand). Scrape the sides and bottom of the container while mixing. To prevent bubbling, avoid introduction of air by carefully controlling drill speed and mixing method.

NOTE: Large batches of Prime Seal 5000 will set up much faster than small batches.

INSTALLING MATERIAL:

NEAT JOINT SEALANT: For joints 1/16" to 1/4" wide. Recommended minimum age of concrete is 28 days. 60-90 days is preferred. Material should be installed when building is under constant temperature control. Minimum joint depth is 3/4" (one inch is preferred).

Material may be poured into the joint out of the mixing container. Fill joints to a full depth. Two component pump systems are recommended over batch mixing.

Joints should be inspected for low spots resulting from seepage. Top these areas off with neat material.

Prime Seal 5000 may separate from sidewall if too much slab movement is encountered. This is not a failure of the material, but rather a safety measure built into the system to prevent the concrete from cracking. If this occurs, the seal will still protect the joint sidewalls. The filler can be repaired by cleaning out any separated material, cleaning the joint out with oil-free compressed air, and refilling with new Prime Seal 5000.

REPAIRING RANDOM CRACKS: Rout out cracks to a depth of at least 3/4" (one inch is preferred). Clean out dust with oil-free compressed air. Follow instructions for neat joint sealant.

EPOXY MORTAR: For joints greater than 1/4". Prime the prepared surface with neat Prime Seal 5000. Add up to three parts oven dried aggregate (Prime Blend Sand). Place the mortar before the primer becomes tack free. Compact and finish the mortar with a trowel.

APPEARANCE: Prime Seal 5000 is a two component product. When the two components are mixed together, the result is a gray color similar to concrete. The user should expect some batch to batch variability in color. Product may yellow and discolor over time if exposed to either natural or artificial ultraviolet light.

LIMITATIONS: Not for use in expansion joints.
Do not use backer rod.
Do not use solvents to thin.
Minimum application and surface temperature is 50° F (10° C)
Use only oven dried aggregate to make the mortar.
Recommended minimum age of concrete is 28 days.

STORAGE: We recommend storage in a dry environment at temperature between 40° to 90°F (4° to 32° C). Ideally, storage temperature should be at 65° to 75° F (18° to 24° C). Under proper conditions, the shelf life is eighteen (18) months in unopened, damage-free containers.

**PROTECT FROM MOISTURE. DO NOT ALLOW PRODUCT TO FREEZE.
STORE AWAY FROM SUNLIGHT.**

WARNINGS: "A" material may cause skin irritation. Contains epoxy resins.
"B" material may cause severe burns on skin. Contains amines.

FIRST AID: **Skin Contact** - Wipe off contaminated area and wash with soap and water.
Eye Contact - Immediately flush eyes with large amounts of water for 10 minutes. Get medical attention.
Inhalation - Move to fresh air if symptoms occur. If breathing is difficult, get medical attention.
Ingestion - If conscious give two glasses of milk or water. Get medical attention.

See MSDS for more information.

CLEAN UP: Clean equipment with MEK or Xylene immediately after use. Observe product cautions when using solvents. Clean skin with soap and water. Wash contaminated clothing before re-use.

WARRANTY: Prime Resins warrants its products to be free from manufacturing defect and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.

If you have any questions or comments about any of Prime Resins products or application techniques you may contact us directly at 800-321-7212, Monday through Friday 7:00 A.M. to 5:00 P.M Eastern Time.

TDS-5000 -6/06 THP 2M



"Innovations In Infrastructure Repair Technology"
2291 Plunkett Road / Conyers, Georgia 30012
Office (770) 388-0626 / Fax (770) 388-0936
E-mail: sales@primeresins.com
www.primeresins.com