

Utility Pole Restoration

UPR™-PR (Standard) Pole Repair Sealant

UPR™-PR Pole Repair Compound creates a dense, structural polymer with the strength of the wood it replaces. It has excellent adhesion and penetration into wood surfaces. UPR™-PR Pole Repair can be applied in temperatures from 20°F to 100°F, and does not require any special tools. It is gaffable and provides superior resistance to water and future woodpecker attacks.

Instructions for Use

UPR™ Pole Repair - kit contents:

- | | |
|--------------------------------------|--------------|
| UPR™-PR Pole Repair Two-part Sealant | Stretch Wrap |
| Mixing Nozzles | Wood blocks |
| | Gloves |



- 1.) Measure the depth and diameter of the hole to determine the quantity of UPR™-PR Pole Repair and wood blocks needed. See Chart 1 below. Each cartridge will fill approximately 50 cubic inches. Do not use more than 5 blocks for every 3 cartridges of UPR™-PR Pole Repair™.

Depth (inches)	Product Quantity	Diameter (inches)				
		4	6	8	10	12
6	Cartridge(s)	1	2.5	4	7	10
	Block(s)	2	4	7	8	14
8	Cartridge(s)	1.5	3	6	9	13
	Block(s)	2	5	7	12	17
10	Cartridge(s)	2	4	7	12	15
	Block(s)	2	6	11	17	25
12	Cartridge(s)	2	5	9	13	18
	Block(s)	3	6	10	20	30
14	Cartridge(s)	2	6	10	15	22
	Block(s)	3	6	14	20	34
16	Cartridge(s)	3	6	11	17	23
	Block(s)	4	11	18	28	40
18	Cartridge(s)	3	7	13	19	28
	Block(s)	5	11	18	32	45

Chart 1

Note: For a small hole, fill the hole just under half full with UPR™-PR Pole Repair.



- 2.) Remove all debris and water from the hole. Duct putty may be used to fill any cracks at bottom of the hole to prevent UPR™-PR Pole Repair from leaking out.

Place blocks into the hole.

- 3.) Wrap 2 to 3 layers stretch film around pole, covering the hole and forming a seal to contain the UPR Pole Repair™. The stretch wrap should cover at least 6 inches below hole. Leave a small access port to inject UPR™ Pole Repair in the top of the wrap.



- 4.) Remove UPR™-PR Pole Repair Cartridge from pouch. *NOTE: Do not remove cartridge from protective foil until ready to use.*

Wear impermeable gloves and eye protection.

Holding cartridge upright, remove nut and plug. (Plug can be saved for re-use of cartridge.) Attach mixing nozzle and tighten nut back into place. **Nut must be replaced or mixing nozzle will detach from cartridge and material may spill.**

- 5.) Use a standard, high-ratio caulking tool to install UPR™-PR Pole Repair. For best performance use Polywater (**Cat. # TOOL-250**).



- 6.) Insert mixing nozzle into the port through the top of the stretch wrap. Rapid injection will produce better mixing. For best results inject no more than 3 cartridges sequentially. For holes requiring more than 3 cartridges, wait ten minutes between sets of 3 cartridges.

- 7.) After injecting the final cartridge of UPR™-PR Pole Repair, cover the access port with stretch wrap. Observe as the foam rises filling the hole over five to ten minutes. If the fill is incomplete, additional UPR Pole Repair™, either a partial or full cartridge, maybe added to finish the fill. UPR™ Pole Repair adheres to wood and to itself.



- 8.) After the hole is filled, the stretch wrap can be removed around the hole by cutting the wrap on each side with a knife.

Application and Use

Clogged/leaking cartridge

The small orifices in the cartridge tip may become clogged. Poke through and loosen hard material or crust with a wire. Material may be used as directed once the clog is cleared. If the back plugs are leaking, do not use cartridge.

Re-use and Clean-up

Cartridge can be reused for several weeks after initial use. Remove mixing nozzle and visually ensure that orifices are not blocked. Seal with replaceable plug and nut. When ready to use, remove end cap assembly and check to make sure orifices are clear of any hardened sealant. Attach a new, unused mixing nozzle, tighten nut and insert used cartridge into ratchet application tool.

Unreacted material may be cleaned from surfaces with a solvent wipe such as Polywater's Type HP Cleaner . Part A, amber resin will react with water if surfaces are washed with soap and water solution. Once reacted, material has strong adhesion, and may be scraped or cut from surface. For skin contamination, wash thoroughly with soap and water. See MSDS for further information.

Water in Hole

Remove any standing water. UPR™ Pole Repair will incorporate water into the body of the cured. Water and/or contamination will weaken the material.

Cold Weather Use

UPR™ Pole Repair can be used in temperatures down to 20°F (-7°C). Reaction is slower, but will completely foam and cure with time. At cold temperatures, the UPR™-PR Pole Repair becomes slightly viscous and flows through the mixing nozzle at a slower rate. Below 50° F, warm UPR™-PR Pole Repair cartridges prior to use.

Dispose of any excess material in accordance with local and national regulations.

Storage: UPR™-PR Pole Repair cartridge is sensitive to sun, water and heat. To keep the cartridge usable up to a month after initial use, place the partial used cartridge into the foil bag and tape it shut. Place the foil bag in a dry cool dark place until ready to use.