Polywater®
Solutions at work.

INSTRUCTIONS FOR USE

POLYWATER® POWERPATCH® SEALANT SLOW CURE (EPSC)

Polywater PowerPatch Slow Cure (EPSC)

PowerPatch® Slow Cure repairs oil and gas leaks in power transformers, gas-insulated switchgear, PILC cable, and other electrical assets. Use Polywater Putty to temporarily stop active leaks, then use EPSC sealant for a permanent repair. EPSC adheres to plastic, metals, fiberglass, and ceramic. PowerPatch is UV and weather resistant.

INSTALLATION

Installation temperature:

40°F to 120°F (4°C to 50°C)

In-service temperature:

-40°F to 300°F (-40°C to 150°C)

- Good surface preparation is critical.
- EPSC has a working time of 60 minutes at 70°F (21°C).

SAFETY

- Wear eye protection
- Use protective gloves

Sand or brush repair area

1. Clean surface with rag or Polywater Grime-Away™ Multi-Purpose Cleaner Wipes to remove dirt and grime.

Abrade the area to be sealed with a steel brush or sandpaper to remove loose particles and oxides, and to roughen the surface. Clean and abrade approximately 3 inches (7.5 cm) around the leak. If surface material is lead, follow prescribed work methods to avoid exposure to lead dust.

Wear nitrile gloves and safety glasses. Refer to SDS of all products before handling.

For an active leak, apply Putty Stick to temporarily stop flow. If there are no active leaks, go to instruction 4.

Clean area with cleaning wipe before applying sealant

2. Cut off a portion of the *Polywater Putty Stick* (approximately ½ inch (1 cm)), remove plastic wrap, and knead/mix by hand approximately 2 minutes, until material is well mixed and of uniform color. For a pinhole leak, shape *Polywater Putty Stick* into a plug the size of a large pea. For a leaking crack or seam, roll the *Polywater Putty Stick* into a rope about ¼ inch (6 mm) thick.

Wipe leak area with cleaning wipe to thoroughly clean the surface of contaminants, oils, and to displace any remaining water. Make sure the surface is dry.

Apply Polywater Putty Stick

3. Apply the mixed Polywater Putty Stick plug or rope over the leak, spreading it out about ½ inch (12 mm) from all points of the leak area with a thickness of approximately ¼ inch (6 mm). The Putty Stick will feel warm as it reacts. Apply constant pressure to this Putty Stick patch with the palm of the hand for 2–3 minutes until material feels firm. For the best long-term seal, limit quantity of Putty Stick.

Note: Prepare as many repairs as possible. This will reduce PowerPatch Sealant waste.

Permanent Seal Application

EP Cups

Mix 2-part paste sealant to a uniform grey color

4. Open one Part A cup (black paste) and one Part B cup (white paste). Remove the protective seal from the Part B cup and discard. A small amount of yellow skin or crust may form from contact with air. This will not harm the performance of the material. Discard skin if present.

Empty all the contents of the Part B Cup into the larger, Part A Cup. Mix for about 1 to 2 minutes until the mixture is a uniform gray color.

Apply PowerPatch over putty patch or leak area

5. Apply the sealant to the prepared surface. Start with the edges of the Putty Stick patch and cover with PowerPatch using light pressure. Spread the Sealant to the surrounding area ½ to 1 inch (13 to 25 mm) beyond the leak or patch on all sides. Build a layer ¼ to $^{3}/_{8}$ inch (6 to 9 mm) thick over the repair area.

Smooth edges

6. Smooth the PowerPatch edges.

The sealant has a working time of approximately 60 minutes and a functional cure in approximately 24 hours, depending on ambient temperature. Do not move area of repair until functional cure is achieved. See Table 1.

TABLE 1

TEMPERATURE	WORKING TIME	FUNCTIONAL CURE
52°F 11°C	120 Minutes	48 Hours
70°F 21°C	60 Minutes	24 Hours
88°F 31°C	30 Minutes	18 Hours

ADDITIONAL INSTRUCTION TIPS

COLD WEATHER

PowerPatch should be kept as warm as possible. Store materials in a warm vehicle and use chemical warming pads to increase the temperature of the repair area. Mixing time may increase in lower temperatures.

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