Transformer Leak Repair Kits

1. Scope

This standard covers the requirements for transformer leak repair kits.

This standard applies to Seattle City Light (SCL) Stock No. 014916.

2. Application

Kits are used to make durable, inf-field repairs of transformer oil and SF6 gas leaks.

Sealant bonds to numerous metals, ceramics, and rubbers.

Eye protection and protective gloves are recommended when using this product.

Product shelf life is 15 months.

3. Industry standards

Transformer leak repair kits shall meet the applicable requirements of the latest revision of the following standards:

ASTM D790; Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials

ASTM D 149; Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies

ASTM D1002; Standard Test Method for Apparent Shear Strength of Single-Lap-Joint Adhesively Bonded Metal Specimens by Tension Loading (Metal-to-Metal)

4. Requirements

Table 4. Transformer Leak Repair Kit Contents

Item	Quantity
PowerPatch® sealant 2-part cartridges	2
Mixing nozzles (static mixers)	4
Putty sticks (1-3/4-inch)	2
Type RP cleaning and preparation wipes	8
24-inch strip sanding cloth	1
Application sticks	4
Instruction sheet	1
Application tool to dispense cartridge package	

5. Packaging

Kits shall be kept cool, dry, and away from sunlight.

Each kit package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- SCL stock number
- Date of manufacture

Each shipping container shall be legibly marked with the following information:

- SCL purchase order number

6. Issuance

Stock unit: KT

7. Approved Manufacturers

Description	American Polywater Corporation Catalog No.
Box of 6 single-use kits (EPCT-KIT1) with application tool (TOOL-50-11)	EPCT-KITB6G

8. Sources

Vanderpool, Laura; Standards Engineering Technical Writer and originator of 7535.45

Polywater Technical Data Sheet; https://www.polywater.com/wp-content/uploads/2022/01/PowerPatch_TDS.pdf

Cost Effective On-Site Leak Repair of Power Transformers; https://www.polywater.com/en/knowledge-hub/cost-effective-on-site-leak-repair-of-power-transformers/

PowerPatch Instructional Video; https://www.polywater.com/en/product/polywater-powerpatch-transformer-leak-repair/