Step 1: Equipment & Materials

EQUIPMENT REQUIREMENTS:

- GLOVES
- WIRE BRUSH (HAND OR MECHANICAL)
- SHARP SCISSORS
- PROTECTIVE GLASSES

MATERIALS REQUIREMENT:

- PCS PRIMING PASTE
- PCS MASTIC
- PCS PT TAPE
- PCS PO250 PVC OVERWRAP
Step 1: Surface Preparation

- Surface preparation in accordance with ISO 8501-1:1988 to a Class Sa 2 or St 2
- This can be achieved by abrasive blast clean, or wire brush, ensuring all loose materials are removed.
Step 3: Primer Application

- Apply PCS Priming Paste to entire surface by hand (gloved) or with a stiff bristle brush.
- Primer should be applied to achieve a material usage of 3-5 m²/kg.
- Primer can be applied to a damp surface.
Step 4: Mastic Application
Step 4: Mastic Application

- Apply PCS mastic by pressing into the areas likely to create voids (air pockets). Pack the mastic by pressing firmly to ensure intimate contact with the steel surface.
- Whilst applying the mastic, contour the product to create a spherical shape (rounded) to facilitate a smooth tape application.
Step 4: PT Tape Application
Step 5: PT Tape Application

- Apply the PCS PT Tape maintaining a 55% overlap.
- The tape is to be applied with sufficient tension to eliminate voids/air bubbles.
- Blend all overlap seams by applying thumb pressure to create a homogenous coating.
Stage 6: PO 250 PVC Overwrap Application
Stage 6: PO250 PVC Overwrap Application

- Apply PCS PO250 PVC Overwrap using the same methodology as the PT Petrolatum Tape.
- Creasing shall occur during the application of the PO250 Tape. This is acceptable as the product is applied solely for mechanical protection as well as electrical resistance. Creasing is minimized if the Flange Pair is pack sufficiently with PCS Mastic [Step 3].
- A minimum 55% overlap should be achieved.
Application Procedure for Petrolatum GATE VALVE
Step 1: Equipment & Materials

EQUIPMENT REQUIREMENTS:

- GLOVES
- WIRE BRUSH (HAND OR MECHANICAL)
- SHARP SCISSORS
- PROTECTIVE GLASSES

MATERIALS REQUIREMENT:

- PCS PRIMING PASTE
- PCS MASTIC
- PCS PT TAPE
- PCS PO250 PVC OVERWRAP
Step 1: Surface Preparation

- Surface preparation in accordance with ISO 8501-1:1988 to a Class Sa 2 or St 2
- This can be achieved by abrasive blast clean, or wire brush, ensuring all loose materials are removed.
Step 3: Primer Application

- Apply PCS Priming Paste to entire surface by hand (gloved) or with a stiff bristle brush.
- Primer should be applied to achieve a material usage of 3-5 m$^2$/kg.
- Primer can be applied to a damp surface.
Step 4: Mastic Application
Step 4: Mastic Application

- Apply PCS mastic by pressing into the areas likely to create voids (air pockets). Pack the mastic by pressing firmly to ensure intimate contact with the steel surface.
- Whilst applying the mastic, contour the product to create a spherical shape (rounded) to facilitate a smooth tape application.
Step 4: PT Tape Application
Step 5: PT Tape Application

- Apply the PCS PT Tape maintaining a 55% overlap. The material can be applied in strips across the body of the valve, however loose ends should be tied in with spiral wraps using a “Figure 8” wrapping procedure (diagonal wraps) [See above pictures].

- The tape is to be applied with sufficient tension to eliminate voids/air bubbles.

- Blend all overlap seams by applying thumb pressure to create a homogenous coating.
Stage 6: PO250 PVC Overwrap Application
Stage 6: PO 250 PVC Overwrap Application
Stage 6: PO250 PVC Overwrap Application

- Apply PCS PO 250 PVC Overwrap using the same methodology as the PT Petrolatum Tape.
- Creasing shall occur during the application of the PO 250 Tape. This is acceptable as the product is applied solely for mechanical protection as well as electrical resistance. Creasing is minimized if the Valve is pack sufficiently with PCS Mastic [Step 3].
- A minimum 55% overlap should be achieved.