

Petroleum Putty

Cold-applied, self-supporting mastic



Features



Free from VOC



Resistant to acid, alkali and salt corrosion



Resistant to heat and oxidation



Suitable for various climatic conditions

Our Petroleum Putty is a cold-coating, self-supporting mastic composed through the condensation of high-molecular materials, including vaseline, porous polymer beads, inert siliceous filler, plant fiber, corrosion inhibitors, and anticorrosion agents via a physical reaction.

Description

Petroleum Putty is highly viscous, flexible, and plastic, exhibiting excellent resistance to chemical erosion. It is suitable for oil and gas, chemical, nuclear power, pharmaceutical, shipbuilding, urban construction and other industries. This product is particularly effective for irregular steel components, such as valves, flanges, pipe joints, and other complex workpieces or uneven surfaces.

When applying Petroleum Putty, the petroleum jelly paste is typically placed at the bottom, with Petrolatum Tape wrapped around the exterior. It is sandwiched in between layers, and finally, a polymer tape (either Outer Wrap PVC Tape or Outer Wrap PE Tape) is used to provide protection against mechanical damage, forming a multi-layer composite system for long-term corrosion protection.

Storage and Shelf Life

This product should be stored in a cool, dry and ventilated place. During transportation, it must be protected from sun and rain. During storage, the temperature range should not be lower than 16°C (60°F) and higher than 49°C (120°F), and the humidity should not be higher than 90%. The shelf life is 36 months.

General Requirements for Applications

General Requirements: The area to be coated must remain clean, dry, and free of dust. All contaminants (including mill scale) must be removed.

Degreasing Treatment: Use toluene or heptane with lint-free cloth and other tools to degrease the surface.

Project	Typical Value	Test Method
Solid Content, Solid Load	100%	ASTM D23692
Specific Gravity (23°C/73.4°F)	0.80SI	ASTM D792
Specific Volume	1.32L/kg	ASTM D792
Thermal Variation	0.23W/m ²	ASTM C177
Indentation Temperature	≥80°C (176°F)	ASTM E2546,15
Water Absorption Rate	≤0.15%	ASTM D570
Application Temperature	0°C to +45°C (32 to 113°F)	
Max Serve Temperature	+75°C (167°F)	
Packaging/quantity	2kg/piece	
Color	Brownish Yellow	

Application Instruction

Step 1

Minimum surface preparation should be ST2/SSPC-SP2 (Hand Tool Clean). Thoroughly remove any loose material, then clean the residue with toluene or heptane using a lint-free cloth.

Step 2

It does not matter when the working surface is wet, but there must be no drops or continuous water film.

Step 3

Apply a layer of petroleum jelly paste evenly with a hard brush

or gloves to ensure no leakage.

Step 4

Use a putty knife or gloves on irregular shapes and protrusions to press petroleum putty into cavities, corners and around bolt heads to form contours suitable for wrapping with Petrolatum Tape without creating bridges or gaps and avoiding air.

Step 5

Apply Petrolatum Tape as needed or proceed to additional procedures.

For more technical inquiries, please visit our website.

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