



POR-15 FIRE SEAL

Application Information

PRODUCT DESCRIPTION

Fire Seal 2000 is an inorganic, mineral rich, single component (no mixing required), water-based ceramic and stainless steel filled putty, (for added strength), that is resistant to fuels, oils, and corrosive materials. After it is fully cured, it will withstand temperatures up to 1100°C (2000°F). Fire Seal 2000 may be applied to rough surfaced or sandblasted steel, stainless steel, or cast iron. Use a putty knife, small trowel, spatula or caulking gun to apply. It is easy and safe to use and bonds aggressively to cast iron and carbon steel and is strengthened by exposure to heat. Use it to repair high temperature, low pressure exhaust leaks from cylinder heads to the muffler, as well as leaks in wood stoves, barbeques and furnaces.

SURFACE PREPARATION

Remove loose rust by abrading parts with a stiff wire brush or sanding tool. Sandblast if parts can be removed. Relieve stress in cracked castings by v-grooving the crack and drilling holes through the ends with a 3mm (1/8") drill bit. Remove any dirt or oil using lacquer thinner or POR15 Solvent. Burn off residue using a propane torch to improve adhesion and prevent any moisture or oil left in the metal from causing Fire Seal 2000 to blister.

APPLICATION

Mix contents thoroughly by kneading pouch. Clip pouch and spread Fire Seal 2000 evenly with a putty knife or spreader. Seal pouch in order to preserve remaining unused material. For pits, cracks and small holes, a maximum thickness of 10mm (3/8") per application is recommended. Make sure to fully cure Fire Seal 2000. If additional applications are required. For holes larger than 10mm (3/8") diameter, repairs should be made using a fine metal screen. First, apply Fire Seal 2000, then form and clamp the screen to the part. Apply a second coating of Fire Seal 2000 to cover the screen.

CURING

Air dry at room temperature for 13-24 hours (up to 48 hours for humid environments), then idle engine or gradually heat repair for 10-15 minutes to fully cure. Note: if bubbling occurs after curing, Fire Seal 2000 was cured too rapidly, or the surface was not adequately cleaned and dried. Correct this by permitting surface to cool, scrape off blistered material, and then re-prepare the area that bubbled.

MACHINING

Sand Fire Seal 2000 after it is fully cured, using a file or medium grit sandpaper. Do not use lubricant for machining. Make sure to wear a dust mask to prevent inhalation of sanding dust.

STORAGE AND DISPOSAL

Store sealed pouches between 10 and 35°C (45 and 90°F). Do not allow freezing. Fire Seal 2000 is environmentally safe, water-based, non-flammable and contains no solvents or volatile organic compounds.

CAUTION: Be careful to avoid contact with eyes and skin. If product gets into eyes, flush with copious amounts of fresh water. Get prompt medical attention. If swallowed drink large quantities of milk or water.

KEEP OUT OF THE REACH OF CHILDREN.

The information set out in this flier is, so far as can be ascertained, true and accurate, but all recommendations are made without guarantee. Since the conditions of use of the Products sold by Permanent Painted Coatings Limited (New Zealand) ("PPC Limited") and Permanent Painted Coatings Pty Ltd (Australia) ("PPC Pty Ltd") are beyond the control of PPC Ltd and/or PPC Pty Ltd ("the Companies"), then the Companies to the full extent allowed by the law, disclaim any liability with respect to damage, injury or death consequent upon the use of the Products or consequent upon the use of the information contained herein. The Companies warrant that the Products supplied hereunder shall conform to the description or specification stated in this flier. The Companies make no warranties that Products supplied are made to certain industry specifications. To the full extent allowed by law, the liability of the Companies with respect to any breach of the aforesaid warranty shall be limited, at the option of the Companies, to payment of the cost of replacing the Products or of acquiring equivalent products and in no case shall the Companies be liable for consequential loss or damage. In no case will the Companies be liable to defend or pay award of damages assessed against the buyer in any suit or cause of action alleging that the use of the Products supplied hereunder infringe any patent. The Companies hereby expressly disclaim any written or unwritten, express or implied representation, warranty or condition against infringement of any patent with respect to such goods.



PERMANENT PAINTED COATINGS (2009) LTD

P O BOX 5614, Frankton, Hamilton 3242

Email: sales@por15.co.nz

Website: www.por15.co.nz