



# PYROTEK PM COATING 1000 EXP AND PYROTEK PM COATING 1000

## PERMANENT MOULD PROTECTIVE COATINGS

Pyrotek PM Coating 1000 EXP is a very smooth, thick coating with exceptional toughness and durability. Pyrotek PM Coating 1000 is a diluted version of EXP. Both are protective coatings for permanent moulds, display non-wetting characteristics, are non-reactive with molten aluminium and have high thermal insulation properties.

Both versions are normally used without a base layer or additional cover layers, and normally do not require additional coating products. Each coating can accept a cosmetic topcoat to create a smoother finish or better release.

### BENEFITS

- High durability
- Very fine particle size
- High thermal insulation
- Available in ready-to-use or concentrated (EXP) options
- Water-based, free of solvents and volatile organic compounds (VOC)
- Compatible with most spray guns for easy application

### PHYSICAL PROPERTIES

Property	PM Coating 1000	PM Coating 1000 EXP
Active Ingredient	Clay ceramic	
Carrier	Water	
Colour	Beige	
Specific Gravity	1.18	1.35
Viscosity-cps @ 5/50	40	7800
pH	8-10	
Shelf Life	12 months	



### USE INSTRUCTIONS

1. If required, dilute the coating. PM Coating 1000 is supplied ready to use. PM Coating 1000 EXP can be diluted up to 1:1 with clean water.
2. Thoroughly clean the surface being coated of dirt, oil, grease and other impurities.
3. Mix the coatings thoroughly to ensure uniform consistency.
4. The coatings can be applied by brush or sprayer. A sprayer is preferred for best results. The substrate may be heated to 200°C (392°F) for spray applications and to 50°C (122°F) for brush applications.
5. Apply the coating at a thickness of 50–125 microns (2–5 mil). Multiple thin layers are preferred to a single thick layer.
6. Allow the coating to dry completely between coats and before it is contacted by molten metal.
7. Clean all the application tools with water.

See Pyrotek document 999–Mixing and Application Guide for more information on mixing and applying coatings.

### STORAGE

- 12 month shelf life—shelf life is maintained by good storage habits, clean tools and distilled water dilution
- Store tightly sealed at room temperature in the original container
- Do not freeze

### HEALTH AND SAFETY

Prior to use, refer to the product safety data sheet for proper handling and required personal protective equipment.

