



PYROTEK PM COATING 7030 EXP AND PYROTEK PM COATING 7030

PERMANENT MOULD PROTECTIVE COATINGS

Pyrotek PM Coating 7030 EXP is a very smooth, thick coating with exceptional toughness and durability. PM Coating 7030 is a diluted version of EXP. Both provide protection for permanent moulds and can produce a near-mirror surface finish on a cast part. Pyrotek PM Coating 7030 is non-wetting and non-reactive to molten aluminium and has moderate thermal insulation properties. It can be used without a base layer or additional cover layers, and works well with or without an insulating coating, such as PM Coating 1000 EXP.

BENEFITS

- High durability
- Low thermal insulation
- Very fine particle size
- Non-wetting to molten non-ferrous metals and their drosses
- Available in concentrate (EXP) or ready-to-use options
- Water-based, free of solvents and volatile organic compounds (VOCs)
- Easily applied with most spray guns
- No additional base layers or cover layers are required

PHYSICAL PROPERTIES

Property	Value
Active Ingredient	Clay ceramics, boron nitride
Carrier	Water
Colour	Beige
Specific Gravity	1.20
pH	8–10
Shelf Life	12 months

STORAGE

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



USE INSTRUCTIONS

1. If required, dilute the coating. PM Coating 7030 is supplied ready to use. PM Coating 7030 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.

SPRAY

1. Adjust the spray gun so it produces a uniformly atomized spray cone.
2. Spray at a distance of 15–20 cm (6–8 inches) from the surface and apply the coating in thin layers. Multiple thin layers are better than a single thick layer.
3. Ideal coating thickness is 125 microns (5 mil).

BRUSH

Brush applications usually result in a thicker layer and rougher coating finish.

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

