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# OPERATION, SAFETY & PROCEDURE GUIDELINE MANUAL

## FOR

# **PANTHER™ WATERPROOFING**

as manufactured by

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**PANTHER™ WATERPROOFING is a liquid applied, polymer-modified asphalt emulsion. It is intended as a waterproofing membrane on below grade foundation walls which are either poured concrete or parged concrete masonry.**

**SECTION 1: SAFETY & HANDLING**

1. Always wear gloves, cap and coveralls to avoid direct contact with skin.
2. Always wear a NIOSH approved respirator when spraying PANTHER WATERPROOFING to avoid inhalation and ingestion of vapors. Make sure your mask cartridges are functioning properly, if not, replace them.
3. Review the PANTHER WATERPROOFING MSDS prior to any spray application.
4. DO NOT spray PANTHER WATERPROOFING without being properly trained by RPC, Inc.
5. PANTHER WATERPROOFING is non-hazardous and does not require any placard during transportation.
6. PANTHER WATERPROOFING will freeze and must be stored at an ambient temperature above 40°. In the winter months, it is best to store PANTHER WATERPROOFING in sealed containers indoors.
7. Review material safety data sheet prior to applying the product.

## SECTION 2: WALL PREP

1. Concrete walls may be sprayed 24 hours after the form stripping process is complete, provided any excess water due to subsequent rains is not present. PANTHER™ WATERPROOFING can be applied to damp or green concrete.
2. The footer must be clean and free of dirt, sand, soil or any other material that would prevent full adhesion of the rubber membrane. The footer must be free of any visible water.
3. Concrete walls must be free of voids and honeycombs. If present, these areas are to be treated with Panther Mastic or a cementitious grout. All form ties must be removed inside and outside below the concrete surface such that the membrane will not be punctured. Minor surface defects such as tie holes may be repaired using PANTHER Mastic.
4. Concrete walls must be smooth and free of projections and other foreign material.
5. On parged concrete blocked walls the cores must be filled and dry prior to application.
6. Brick ledges and buttress walls constructed from masonry must be capped prior to application of the membrane.
7. Check all penetrations to insure that they are secure and in the correct and final position.
8. In all possible situations, require your builder to mark the proper grade lines.

**Correct wall preparation procedures will ensure the proper adhesion of the PANTHER WATERPROOFING membrane, and make the application process clean and easy. Follow these easy steps without exception, and you will experience fewer callbacks.**

### SECTION:3 INSTALLATION PROCEDURES AND EQUIPMENT

1. It is the responsibility of the applicator to educate the general contractor regarding proper drainage and grade slope, prior to issuing a warranty.
2. PANTHER™ WATERPROOFING can be applied at ambient temperatures down to 40°F. The spray rig and material should be kept in a heated truck, and the hose line should be insulated to spray at this temperature.
3. DO NOT dilute material.
4. For best results, PANTHER WATERPROOFING is to be heated to a temperature range of 110-130°F (at the spray tip) for installation. The spray pump should be able to achieve an input pressure of 2500-3000 psi for application.
5. PANTHER WATERPROOFING can be heated through a single pass heat exchanger connected to an engine's coolant system, or band heaters applied to PANTHER WATERPROOFING barrels.
6. Spray tip size .33 or .35 inches is recommended.
7. Proceed to apply the waterproofing membrane; application should be made in multiple, uniform passes, such that a wet membrane thickness of 60 mils is obtained as determined by a standard wet mil gauge. A cured thickness of 40 mils will result. Check for thin or missed areas upon completion.
8. After the PANTHER WATERPROOFING membrane is firm, it is ready to receive a "breathable" protection/insulation course. Contact RPC, Inc. for approved "breathable" protection boards. Protection boards should not be overlapped. Protection board should cover the entire membrane for protection from backfill.
9. Allow a minimum of 24 hours before backfill.
10. A positive interior or exterior drainage system is required and an exterior system must channel water to daylight or to an interior sump pump.
11. Panther Waterproofing is not intended as a permanently exposed membrane, backfill within 30 days of application.

For further questions contact:

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