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OPERATION, SAFETY & PROCEDURE GUIDELINE MANUAL

FOR

GRAYWALL™ WATERPROOFING

as manufactured by

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IMPORTANT INFORMATION

Graywall Waterproofing is a rubber polymer that makes it tougher and stronger than asphalt based competitive products.

The Graywall membrane meets Federal, State and many Local VOC emission requirements.

In its cured state on the wall, Graywall is solvent-free, non-toxic and non-carcinogenic. However, in its liquid, uncured form, Graywall contains solvents that are **flammable and hazardous**. Because of this, Graywall is not to be used in confined spaces and should only be used in areas which are well-ventilated. If Graywall is used or stored in a poorly ventilated area, there is a risk that the flammable vapors will accumulate and create a potentially explosive environment.

Therefore, it is important that you do not store, transport or apply Graywall Waterproofing before reading and understanding the Material Safety Data Sheet (MSDS) and safety/application information presented on the following pages.

If you do not understand any of this information we urge you to call us with your questions at 770-410-1545.

Note: The information presented here by RPC is not able to, or intended to, supplant individual training, responsibility or judgment of the user.

SECTION 1: SAFETY INFORMATION

1. DO NOT spray Graywall™ Waterproofing before reading and understanding the following safety guideline and the Graywall MSDS. If you need additional copies of the MSDS, please contact us and we will forward more immediately. A copy of the Graywall MSDS is attached to the back of this manual. You can also find copies affixed to each barrel of material shipped to you.
2. DO NOT spray Graywall Waterproofing without being adequately trained in the operation and safety of your company's application equipment. Read and understand the instructions provided by the manufacturer of the application equipment.
3. DO NOT SPRAY ALONE.
4. DO NOT spray indoors or in confined spaces, including cisterns. Spraying or otherwise applying Graywall Waterproofing or its related products in confined spaces is an **inherently dangerous activity** and could result in a fire explosion or respiratory failure, causing death or serious injury. Confined space application of a flammable product such as this requires specialized skill, knowledge and safety requirements not provided by RPC. Any such use done contrary to RPC instructions is entirely the responsibility of those who do not follow our explicit warnings. RPC has neither the resources nor expertise to determine whether or not a jobsite is considered a confined space. Regional fire and other regulatory codes may vary. It is the sole responsibility of the user to be in compliance.
5. Approved heatable tanks, if used, should be vented in accordance with the tank manufacturer's specifications and instructions. The temperature in the tank should be maintained at a level that will give 120°F to 140°F temperatures at the tip of the spray gun.
6. When pouring into a heatable tank, ALWAYS ground barrel to tank...tank to truck...truck to ground. Always ground both containers when pouring Graywall. This ground must be attached to link both containers. Transferring Graywall must be done in a well ventilated area away from sparks, flames, and any ignition sources.
7. DO NOT heat Graywall above 160°F. Properly vent the top of the barrel by loosening the bungs. If barrel heaters are used, the barrels must be properly vented to the outdoors. This prevents the accumulation of solvent vapors in confined areas while allowing for the expansion of heated materials. Always follow the safety and operational instructions provided by the manufacturers of the barrel heaters.

8. Enclosed application trucks or vans must have proper ventilation or air movement to avoid air pocket accumulations of dangerous or explosive fumes or vapors.
9. Store and transport Graywall™ according to Local, State, Federal, Fire, D.O.T and environmental codes. For further information call the appropriate authority in your area. This also applies to storage, transportation and disposal of empty Graywall barrels.
10. Secure the job site by posting no smoking signs. Keep all sources of ignition away from Graywall material and vapors. DO NOT smoke around Graywall barrels, equipment, or on application sites. Be certain other contractors are aware of the flammability of the product and ignition sources on the job site. DO NOT spray near pilot lights or active electrical switches or devices.
11. DO NOT breathe vapors. Applicators and others subjected to fumes are required to wear NIOSH approved disposable organic vapor respirators. Medical approval must be obtained for each person who will require a mask. Proper individual fit is required. Displacement of air by solvent vapors can lead to oxygen deprivation causing dizziness, unconsciousness, or death. High vapor concentration can overwhelm the filters in the masks. If you detect fumes through the mask or feel lightheaded or dizzy, move to a fresh air area immediately. Make sure your mask filter cartridges are functioning properly, if not, replace them.
12. High pressure airless sprayers are potentially dangerous. Direct spray can penetrate skin or eyes and cause serious injury. If accidental penetration occurs seek medical attention immediately.
13. Prior to commencement of spray application, properly ground truck to a copper grounding rod. ALL VEHICLES MUST BE GROUNDED.
14. Wear gloves, cap, and coveralls to prevent skin contact.
15. Wear safety goggles with side shields. If Graywall gets into eyes, flush with clean water. Seek immediate medical attention with a copy of the MSDS.
16. OSHA regulations require a working fire extinguisher and first aid kit in the truck cab. Fire extinguishers should be located near all truck doors, and an extinguisher should also be accessible at the spray site.
17. All Graywall barrels, whether full or empty, should be stored in protected areas. Keep them away from children. These containers are hazardous when emptied. Emptied containers retain vapors and liquid.

All hazard precautions must be observed when handling emptied containers. Empty drums are not suitable for use as trash containers, rafts, barbeque pits or any similar use.

SECTION 2: INSTALLATION PROCEDURES (Wall Prep)

1. Concrete walls may be sprayed 24-48 hours after the form stripping process is complete, provided any excess water or moisture due to subsequent rains, etc., is not present.
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 dry, and free of any visible water. Any water present must be removed, and the substrate dried. Graywall™ will not adhere to a wet foundation.
3. Concrete walls must be free of voids and honeycombs. If present, these areas are to be treated with Rub-R-Wall® 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 Rub-R-Wall Mastic.
4. Concrete walls must be smooth and free of projections and other foreign material such as organic matter, asphalt or other frozen material.
5. Graywall is designed to cover “bug holes” and “pock marks” through standard spray applications, it is not required to fill in such areas.
6. In all possible situations, require your builder to mark the proper grade lines.
7. Graywall Waterproofing is not intended as a permanently exposed membrane, backfill within 30 days.

Correct wall preparation procedures will ensure the proper adhesion of the Graywall 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 (Spray Site)

1. Graywall™ Waterproofing is designed for new construction only. It is not intended to be used for interior application.
2. DO NOT apply Graywall Waterproofing over asphalt or tar based products.
3. DO NOT apply Graywall when the ambient temperature is below 5°F.
4. DO NOT apply Graywall to frozen surfaces that have not had a chance to cure. Poured concrete walls, mortar, masonry block cores filled with concrete as well as parged surfaces must be cured before applying Graywall Waterproofing.
5. DO NOT introduce any material that will enhance or dilute Graywall. This will adversely affect its characteristics. DO NOT thin Graywall.
6. GROUND THE TRUCK, barrels and all spray equipment to the ground at the jobsite. The rig must always be grounded while spraying, no exceptions.
7. Post a no smoking sign, and be sure that no other tradesmen introduce any ignition sources during your time at the jobsite; welding, smoking, electrical equipment, etc.
8. Proceed to apply the waterproofing membrane; application should be made in multiple, uniform passes such that a wet membrane thickness of 40-60 mils is obtained as determined by a standard mil gauge. A cured thickness of 20-30 mils will result. Spraying a tack coat first will help eliminate sags and runs. Spray the top of the footer 3 inches away from the wall, and when finished, double check for thin or missed areas. (Individual training in the field will follow)
9. The Graywall membrane should be firm after 15-20 minutes. Graywall does not require a protection course.
10. Allow a minimum of 24 hours after coating before backfilling, and a maximum of 30 days before backfilling.

SECTION 4: EQUIPMENT

1. Graywall™ is to be heated to a temperature range of 120-140°F (at the spray tip) for installation. The spray pump should be able to achieve an input pressure of 1500-2500 psi for Graywall application.
2. Graywall can be heated through a single pass heat exchanger connected to an engine's coolant system, or band heaters applied to Graywall barrels. Graywall temperature should never exceed 160°F.
3. Graco 45:1 airless spray pumps are recommended (or comparable unit).
4. Interlinking lines between the pump, heat exchanger and the material, should be short, and have a larger diameter, to ensure good material flow. Lines should not exceed 4 feet in length, and the diameter should be at least 2 inches.
5. A high pressure spray hose is required, with a diameter of no more than 1/2 inch, and a length of no more than 200 feet.
6. Graco Silver Plus spray gun, with spray tip series 600 and 700 are recommended.
7. All connections should be as tight as possible, as to not introduce air leaks.

For further questions contact:

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