



GUARDIAN ROOF POLYMERS UF9022 SINGLE-COMPONENT FIBER REINFORCED POLYURETHANE

A. DESCRIPTION:

Guardian Roof Polymers (GRP) UF90 is a phthalate free, moisture cure urethane roof patch designed to be installed in a single application on a variety of substrates. Fabric reinforcement may be added as desired at angle changes, or when flashing irregularly shaped penetrations. Sacrificial tape is recommended when repairing cracks more than ¼ in (6.4 mm) in width and all cracks that are subject to movement.

RECOMMENDED USE:

Use GRP UF90 on surface cracks*, control joints*, coping joints*, gutter seams, membrane pinholes, rain collars and fish mouths*, or as pitch pan filler.

*May require the use of sacrificial tape.

B. LIMITATIONS:

Not suitable for use over gravel-surfaced built-up roofs.

C. PACKAGED PRODUCT DATA:

PROPERTY	DESCRIPTION
COLOR	UF9022 -Gray
ADHESION	GRP UF9022 can be directly applied to aluminum, galvanized metal, aged single ply membranes (EPDM, TPO, PVC) .APP and SBS mod bit and asphalt roofing materials. A primer is recommended for most other substrates. Adhesion tests are recommended to confirm proper bond Do not apply to silicone roof coatings
THEORETICAL COVERAGE	3 gal /100 ft ² (11.4 L / 9.3 m ²) when applied at 50 wet mils, (1.3 mm) thick. NOTE: Application rate is job specific. Additional material may be required.
SOLIDS	Weight: 93 % ASTM D1644 Volume: 90 % ASTM D2697
STORAGE STABILITY	One year from date of manufacture when stored in a cool dry location. High temperature and humidity during storage may shorten the shelf life. Some separation may occur after extended storage. If separation is observed, mix thoroughly before use.
TOXICITY	Not for use in contact with edible substances or potable water.
V.O.C.	< 20 g / L EPA Method 24
FLASH POINT	96.3°F (35.7°C) closed cup
CONSISTENCY	Thick, trowel-able material

D. PHYSICAL PROPERTIES:

PROPERTY	ASTM TEST	RESULT
TENSILE STRENGTH	D412 (1 in/min)	>175 psi (1.21 MPa)
ELONGATION AT BREAK – INITIAL	D412 (1 in/min)	>350 %

E. APPLICATION:

STEP	INSTRUCTIONS
THINNING	Product should not be thinned.
MIXING	If separation of the product is noticed, mix with a mechanical mixer before application to ensure uniform color and consistency.
SURFACE PREPARATION	Remove loose material, dirt, and other debris from the application area with a stiff bristle brush. Cleaning of single ply membranes and other smooth surfaces with an all-purpose cleaner. Allow the area to dry thoroughly. [Note: Do not wash asphaltic roof substrates prior to application.] Remove rust and scale from metal surfaces with a wire brush. Apply appropriate rust inhibiting primer prior to applying GRP UF90. Slick, prefinished metal surfaces should be abraded with a wire brush or sandpaper and wiped with a clean, dry rag. GRP UF90 may be applied to damp horizontal surfaces to serve as a temporary water-stop, but any standing water should first be removed.
APPLICATION	Mix material prior to application. Apply to patch area at a minimum wet thickness of 1/16 in (1.5 mm) and spread at least 3 in (76.2 mm) in all directions from the affected area. For cold weather applications (ambient temp <40 °F (4 °C)), keep GRP UF90 stored above 65 °F (18 °C) until application. Do not apply to substrates below freezing or above 120 °F (49 °C). For filling deep pockets (>0.5 in, 12.7 mm) a small amount of water (1 oz per gallon) may be mixed into the patching material to ensure thorough curing,
DRY TIME	At 1/16 in (1.5 mm) thick, in 75 °F (24 °C) temperatures and 55 % relative humidity, GRP UF90 will be tack-free in two (2) to four (4) hours, fully cured in forty (40) hours. Low humidity and low temperature will result in longer cure times.
APPLICATION OF TOP COATS	GRP UF90 may yellow with exposure to UV light. GRP UF90 should be top coated to extend the life of the material. GRP urethane topcoat is recommended. Allow GRP UF90 to cure for sixteen (16) hours before applying topcoat
CLEAN UP	Clean up tools and equipment with appropriate solvent such as xylene as permitted by local, state or other regulatory agencies.

* For specific Health and Safety information please refer to applicable Safety Data Sheet (SDS)