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TECH DATA SHEET

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Description:

HyKote™ 900 WP Complete

Part Numbers

90-FWP9-GY-05, 90-FWP9-GY-50
90-SWP9-GY-05, 90-SWP9-GY-50

A flexible, high performance, watertight, elastomeric, ready-to-use single component, fluid-applied, solvent based 100% rubber waterproofing membrane that is applied in a two-coat application process. HyKote™ 900 WP does not require insulation, drainage or protection panels.

Product Highlights:

- HyKote™ 900 WP is compliant with ICC-ES AC 29

Packaging:

- Available in Gray
- Custom colors available by request only
- 5 Gallon pail, and 50 Gallon Drums

Technical Information

AC 29 Acceptance Criteria for Cold, Liquid-Applied, Below Grade, Exterior Damp-proofing and Waterproofing Materials (Approved June 2011)

Property	Test Method	Result
Color[1]	NA	Dark Gray or Green
Asphalt Content[1]	NA	0.0%
Thickness[1]	ASTM D 3767	40 mils. (nominal)
Tensile Strength, Membrane[1]	ASTM D 412	491.5 psi
Elongation, Membrane[1]	ASTM D 412	860.5 %

Property Resistance to Deterioration in Contacting Soil	Test Method ASTM E 154	Result	Requirement
Weight Loss (%)	ASTM E96-00	6.6	≤ 10
Water Vapor Permeance (Perm)		0.2 perm	≤ 10
Hydrostatic Pressure over Cracks (ft. of water)	ASTM C1306-95	69.3	Report 50% of lowest value
Resistance to Water (Pass/Fail)	ASTM D 2939	Pass	No blistering or re-emulsification
Remain in Place During Application [Pass/Fail]	ASTM C 836	Pass	As recommended by Mfg. ± 5 mils
Adhesion-in-peel (after water immersion) (lb/in)	ASTM C 836	5.3 lbs./in.	≥ 1
Low Temperature Crack Bridging [Pass/Fail]	ASTM C 1305	Pass	No Cracking
Extensibility after Heat Aging [Pass/Fail]	ASTM C 1522 / ASTM C 836	Pass	No Cracking

[1]Property not part of AC 29 testing requirements

Surface Preparation:

Surface must be dry, clean, and free from grease, wax, excess mortar, dust, dirt, loose stone, biomass, foreign particulate and debris. Concrete surfaces must be properly cured, dry, smooth and without large voids, spalled areas or sharp protrusions. Do not proceed with installation until concrete has properly cured and dried (minimum of 14 days for normal structural concrete). Masonry joints must be flush and completely filled with mortar. Fill tie rod holes, honeycombed areas, bug holes and other surface defects with HyKote™ Labor Sav'R Mastic™. (Refer to Labor Sav'R Mastic for Below Grade Applications Product Data Sheet). Repaired areas must be finished flush with surrounding surface area.

Application:

Apply product using appropriate spray equipment (preferred method) or product may be rolled with a smooth-medium nap roller or soft brush at ambient temperatures above 40˚F (4˚C). Remove all filters from spray unit or spray guns. Use heavy–duty (XHD) tips without a diffuser or atomizer bar. Tip sizes range from 625 to 633 and 725 to 733. Tips may need to be adjusted depending on slope and product. Hold spray wand during application no higher than 12 inches from target substrate with 50% overlap and allow product to "FLOW" AND "SELF-LEVEL". Always spray at a straight "up and down" or 90˚ angle to enhance performance. Always remix product after any application work stoppage of **20 minutes or more** to ensure critical additives stay in suspension.

See further detailed instructions in Material Preparation section

Tools & Equipment

Follow personal protective equipment requirements as listed on material MSDS. Utilize appropriate OSHA safety equipment. Drum and/or pail 4" wide heat bands or heat exchanger; infrared thermometer, wet mil gauge, and paddle type mixer are required. Use a Graco 733, Graco 833 or similar equipment with appropriate tips. Recommend using 1/2" hose with 3/8" whip. If rolling use medium to smooth nap roller (1/4" to 3/8" nap). Square edge trowel, caulking tube assembly, 1–2 & 4–6-inch brushes or roller may be used to apply HyKote™ Labor Sav'R Mastic.

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Material Preparation

Material Heating Guide

***HyKote 900 WP COMPLETE application temperature (top)**

****Target substrate temperature (bottom)**

***120**	**110**	**100**			**95**		**90**			**85**		**80**
****40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**	**150**	**160**

HyKote™ 900 WP Complete must be properly heated and stirred prior application. To maximize product performance and ease of application, always heat the product to a temperature range of between 80˚F and 120˚F with 4" wide heat bands or heat exchanger. When using spray type application method, it is especially important to heat product to ensure proper viscosity for maximum performance of applied product in both **warm and cold weather**.

Determine "on-site" the proper application *temperature* for efficient and quality assuring best practice product installation. Temperature selection can vary. Existing ambient air temperature will impact selection, concrete substrate temperature and the type and size of selected spray pump and spray tip used. Always synchronize the heating process of the material to be installed with target concrete substrate temperature. When target concrete substrate is equal (very hot during the summer) or in excess of the product application temperature, always adjust the product temperature before application. If applied product becomes too hot from the combination of preparation heating and exposure to extreme heat of target concrete substrate, the product will run or "sag" resulting in low and unacceptable millage thickness. Conversely, if the product is not heated sufficiently and is applied at too low a temperature, the spray pattern will result in the phenomena known, as "webbing" or "fingering" and the product will not self-level. If in doubt, always contact Manufacturer.

Stir heated material (summer & winter) thoroughly prior to application. Always mix (stir) from bottom to top using a paddle type mixer at a minimum of 20 minutes for a 50–gallon drum and 5 minutes for a 5–gallon pail. Be diligent that paddle sweeps actual bottom of drum. Do not over mix (or allow air bubbles) as this will result in pinholes. Spray pump cavitation caused by suction leaks (or from worn seals) will also allow air into the product causing pinholes.

To best work efficiently, keep two or three 5–gallon pails or two 50–gallon drums heating and/or stirring ahead of crew. Heating a 5–gallon pail from 70˚F to 100˚F with one 4" wide heat band on max (#10 setting) should require approximately 10 minutes plus an additional 5 minutes to mix. Heating a 50–gallon drum from 70˚F to 100˚F when using a heat exchanger should take between 20–30 minutes. Heating a 50–gallon drum from 70˚F to 100˚F with two 4" wide bands heaters on max (#10 setting) should take approximately 30–40 minutes.

Always remix product after any application work stoppage of **20 minutes or more** to ensure critical additive products stay in suspension

Minimum Suggested Coverage Rate

Product must be applied at the designed minimum application rate of 40 wet mils for both the Basecoat and Topcoat.

Typical coverage rates are 25–30 square feet per gallon on cast-in–place walls and parged block walls.

One five-gallon pail covers 125–150 sq. ft in two coats per above. One 50-gallon drum covers 1,250–1,500 sq. ft in two coats per above.

Topcoat is applied perpendicular to basecoat with an additional 40 wet mils and with a 50% overlap

Drying Time

2–4 hours (typical) in optimal weather conditions before recoating.

4–6 hours (typical) in non-optimal weather conditions before recoating.

Clean-Up

Clean equipment, brushes, rollers, and tools using Regular Mineral Spirits.

Storage and Handling

Maintain materials in their original unopened containers with all labels intact and legible. Store containers on pallets in a covered or protected area. **Store in areas where maximum temperature does not exceed 90˚F and at a minimum of 40˚F. Never store drums in an open environment without using proper protective moisture proof covering as condensation or rain, under certain conditions, may infiltrate and contaminate the drum contents through the "bung" and ring areas. KEEP OUT OF REACH OF CHILDREN. KEEP AWAY FROM FLAME OR ANY OTHER SOURCE OF IGNITION**. For additional safety & health information, refer to the SDS for this product.

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