



Product Data Sheet

PRODUCT DESCRIPTION

70817-01/70818 (Hempel 57079/95059) is a two-component, low VOC, ultra-high solids chemical resistant, white aliphatic polyurethane.

SYSTEM DESIGN

70817-01/70818 is designed for use as a topcoat for NEOGARD® flooring and decorative waterproofing systems.

USES

- As a topcoat for NEOGARD® flooring and decorative waterproofing systems.

ADVANTAGES

- Superior resistance to chemical attack.
- Excellent UV resistance.
- Superb impact and abrasion resistance.
- Excellent anti-microbial resistance.
- USDA acceptable for incidental food contact.
- Meets VOC content requirements for Floor Coatings established by South Coast AQMD.

LIMITATIONS

- Use with adequate ventilation.
- Do not apply to damp, unclean or frosty surfaces.
- Do not apply directly to concrete.
- Precondition material for 24 hours at 65°–75°F (18°C–23°C).
- Do not apply if ambient temperature is less than 50°F (10°C) or greater than 85°F (29°C).
- Ambient temperature must be a minimum of 5°F (3°C) above dew point.
- Cure times, flow/leveling, cured physical properties, and overall appearance will be adversely affected if product is applied outside of these temperature ranges.
- Maximum Relative Humidity: 85%.
- Minimum Relative Humidity: 30%.
- Open to foot traffic in 16 hours at 75°F (23°C), 50% relative humidity.

PRODUCT COLORS AND PACKAGING

Product Numbers: NEOGARD® (Hempel)	Color	Packaging
70817-01 (5707916640)	White	2-gallon kit (mixed)
70818 (9505900000)	N/A	

Contact NEOGARD® for available colors.

APPLICATION INSTRUCTIONS

NEOGARD® products are to be installed in accordance with instructions in the NEOGARD® Flooring Systems Application Manual.

- Thoroughly mix 1:1 by volume. Apply at a rate of 140 to 200 sf/gal to achieve a dry film thickness of 8 to 12 wet mils. Note: Product may turn milky if applied in excess of 12 mils/per coat or in areas of high humidity (>85% RH). Application of less than 8 mils wet film thickness on a smooth system may produce an orange peel texture.
- When applying additional coats, do not exceed 24 hour recoat window. If recoat window is exceeded, lightly abrade surface with 80–100 grit sand paper and thoroughly clean surface before applying next coat.

MIXING AND THINNING

Read product labels and application instructions prior to use. Product must be mixed. This product has been formulated to be applied without the need of thinning. However, application under certain conditions and with certain equipment may be enhanced by thinning. Please note that thinning will increase VOC content of the mixed coating. Always know local VOC restrictions for coating applications in your area before thinning this product. Do not thin material more than 10%. See compatible thinners and additional mixing instructions in the NEOGARD® Flooring Systems Application Manual.

- Pre-mix 70817-01 for 3 minutes. Add entire contents of 70818 container to 70817-01 container and immediately mix for 3 minutes. Mix using a slow-speed drill with a Jiffy Mixer paddle. Take precautions not to introduce air into the material while mixing.

CURED PROPERTIES

Description	Test Method	Results
Tensile Strength	ASTM D2370	5,800 psi
Elongation	ASTM D2370	40%
Shore D	ASTM D2240	65

Description	Test Method	Results
Anti-Microbial	JIS Z 2801-2010	Pass
Water Resistance	ASTM D471	<1%, 7 days
Taber Abrasion, 1,000 cycles CS-17	ASTM D4060	17 mg

The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at <http://www.neogard.com>.

PRODUCT DATA

Description	Test Method	Results
Weight/Gallon (mixed)	ASTM D1475	9.95 lbs/gal
Weight Solids (mixed)	ASTM D5201	96%
Volume Solids (mixed)	ASTM D5201	95%
VOC (mixed)	ASTM D5201	<100 g/L
Flash Point	ASTM D3278	70817-01: 204°F (95°C) 70718: 316°F (157°C)
Pot Life at 75°F (23°C), 50% RH		60–80 minutes
Working Time at 75°F (23°C), 50% RH		20–25 minutes
Cure Time at 77°F (24°C), 50% RH		10–12 hours
Recoat at 75°F (23°C), 50% RH		Within 24 hours
Shelf Life		1 year

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ADDITIVES

Product No.	Description	Use
7986 (994JB00000)	Odor Mask	Synthetic vanilla used to mask less pleasant odors

STORAGE AND HANDLING

Containers of urethane coating should be stored in a cool (75°F, 23°C) area to ensure full shelf life. Keep container closed. Keep away from sources of ignition. To prevent container rupture due to very high temperature, keep away from heat and/or open flames.

CLEAN UP

Clean tools and equipment with aromatic solvents such as NEOGARD® 7055 Odorless Reducer, HEMPEL'S 08080 Xylene Thinner, toluene, or MEK.

HEALTH AND SAFETY

Read the Safety Data Sheet (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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