

Product Data Sheet

Neocrete RT — 70800/70801/70806

48021: Resin 48019 : Hardener 98010 : Aggregate 66023



Description:	Neocrete RT (70800/70801/70806, Hempel 48021) is a rake-and-trowel applied, water-dispersed polyurethane resin combined with a powder aggregate.
Recommended use:	As a surfacing/resurfacing system applied to the following substrates: concrete, polymer reinforced screeds, and properly supported wood floors.
Features:	High abrasion, impact, and chemical resistance. Resistant to thermal shock stresses such as hot water and daily steam cleaning. Resistant to acids, caustics, fuels, oils, and solvents. Steel troweled in one step; requires no primers or sealers. Meets U.S.D.A. requirements for incidental food contact. Meets South Coast Air Quality Management District (SCAQMD) VOC requirements.
Service temperatures:	-120°F –210°F/-84°C–99°C
Certificates/approvals:	LEED: MRc5, IEQc4.2
Availability:	Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

70800-02 (4801916650)	Gray	2-gallon can, 141 fluid oz. fill
70800-05 (4801957930)	Red	2-gallon can, 141 fluid oz. fill
70800-03 (4801923820)	Tan	2-gallon can, 141 fluid oz. fill
70801 (9801000000)	NA	1-gallon can, 90 fluid oz. fill
70806 (6602309990)	NA	51 lb. bag

Some standard colors may have extended lead times and/or minimum quantities.

Physical constants:

Compressive strength	7,700 psi	ASTM C579
Tensile strength	712 psi	ASTM C307
Flexural strength	2,200 psi	ASTM C580
Modulus of elasticity	446,700 psi	ASTM C580
Shore D	84	ASTM D2240
Adhesion (concrete)	400 psi	ASTM D4541
Water resistance	0.42%	ASTM C413
Density	121 lbs/ft ³	ASTM C905-01
Coefficient of thermal expansion	2.4 x 10 ⁻⁵ in/in/°F	ASTM C531
Resistance to fungal growth	No Support of Growth	ASTM G21
Flammability	Pass	ASTM D635
Weight solids (mixed)	99.95%	ASTM D5201
Volume solids (mixed)	99.93%	ASTM D5201
Flash point	None	ASTM D3278
VOC (mixed)	8.4 g/L	ASTM D5201
Shelf life	1 year	
Typical thickness	3/16"	
Mixed unit coverage at 3/16"	36 square feet	
Initial join up time at 70°F/21°C per 3/16"	20 minutes	
Cure to foot traffic at 70°F/21°C per 3/16"	4–8 hours	
Cure to full use at 70°F/21°C per 3/16"	10–16 hours	

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 www.neogard.com.

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Application details:

Version, mixed product

Mixing ratio:

Neocrete RT 48021

Base 70800 (48019) : Curing Agent : 70801 (98010) : Aggregate: 70806 (66023)

Mix 141 fluid ounces of 70800 (one 2 gallon can) with 90 fluid ounces of 70801 (one 1 gallon can) hardener and add one 51-pound bag of 70806 powder. Mix with a variable speed drill utilizing a Jiffy Mixer to suspend any settled pigment and attain a uniform color. Mix only until the material is smooth and has no clumps of aggregate. Over-mixing will shorten pot life, working time, and affect flow/leveling. Mixing time will vary depending on temperature conditions.

IMPORTANT: Pre-mix 70800 for a minimum of one minute before mixing with 70801 hardener. To avoid color variation from mix to mix, scrape all of the pre-mixed 70800 from the 70800 can into the mixing container.

Application method:

Thinner (max.vol.):

Pot life:

Cleaning of tools:

Gauge rake or loop roller

Contact Neogard for thinning instructions

15 minutes at 70°F/21°C

7055 Odorless Reducer (086JB) or Hempel's Thinner 08080 (xylene)

Safety:

Handle with care. Use with adequate ventilation. Before and during use, observe all safety labels on packaging and paint containers, consult Neogard Safety Data Sheets and follow all local or national safety regulations.

Surface preparation:

According to Neogard Guide Specifications.

Application conditions:

Ambient temperature must be between 50°F/10°C and 85°F/29°C, and a minimum of 5°F/3°C above dew point.

Preceding coat:

According to Neogard Guide Specifications.

Subsequent coat:

According to Neogard Guide Specifications.

Storage temperature:

Store in a cool area to ensure full shelf life. Recommended temperature: 70°F/21°C.

Remarks:

For maximum adhesion, correct surface preparation is essential. Regular cleaning of applied surface is recommended in order to maintain slip resistance and aesthetics.

Note:

Neocrete RT is for professional use only.

Issued by:

Hempel (USA) – 48021

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No.	Document Description
1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this PDS and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheet current as of the time of delivery and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the Product, and Neogard disclaims all responsibility for any use, handling and storage of the Product that is not in accordance with the requirements set forth in the relevant PDS and the Additional Documents. The terms and provisions hereof apply to this PDS, the Additional Documents and any other documents supplied by Neogard in respect of the Product. The Product is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at www.hempel.com. NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE PRODUCT. NeocreteRT-PDS ksk 09092021.docx

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