

# Product Data Sheet

70850/70801/70806 — Neocrete RT

48021: Base 48119 : Curing Agent 98010 : Aggregate 66023



**Description:** Neocrete RT 70850/70801/70806 (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:

70850-02 (4802916650)	Gray	2-gallon can, 141 fluid oz. fill
70850-05 (4802957930)	Red	2-gallon can, 141 fluid oz. fill
70850-031 (4802923820)	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	3,587 psi	ASTM C579
Tensile strength	524 psi	ASTM C307
Flexural strength	1,280 psi	ASTM C580
Modulus of elasticity	254,693 psi	ASTM C580
Shore D	84	ASTM D2240
Adhesion (concrete)	>400 psi	ASTM D4541
Water resistance	0.17%	ASTM C413
Density	112 lbs/ft <sup>3</sup>	ASTM C905-01

Weight solids (mixed)	97.12%	ASTM D5201
Volume solids (mixed)	95.24%	ASTM D5201
Flash point	None	ASTM D3278
VOC (mixed)	36.3 g/L	ASTM D5201
Shelf life	1 year	
Typical thickness	1/8"	

*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](http://www.neogard.com).*

## Application details:

### Version, mixed product

Mixing ratio:

### Neocrete RT 48021

Base 70850 (48029) : Curing Agent : 70801 (98010) : Aggregate: 70806 (66023)

Mix 141 fluid ounces of 70850 (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. Time will vary depending on temperature conditions.

**IMPORTANT:** Pre-mix 70850 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.

# Product Data Sheet

70850/70801/70806 — Neocrete RT

48021: Base 48119 : Curing Agent 98010 : Aggregate 66023



## Application details (continued):

Application method: Gauge rake or loop roller  
Thinner (max.vol.): Contact Neogard for thinning instructions  
Pot life: 15 minutes at 70°F/21°C  
Cleaning of tools: 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

This Product Data Sheet (“PDS”) relates to the supplied product (“Product”) and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the PDS current as of the time of delivery. In addition to the PDS, the buyer/applicator may receive some or all of the specifications, statements and/or guidelines listed below or available at [www.neogard.com](http://www.neogard.com) (the “Additional Documents”):

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](http://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](http://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. 70850-70801-70806-PDS ksk 09082021.docx

Neogard®, a part of Hempel  
2728 Empire Central - Dallas, Texas 75235 - Phone (214) 353-1600 - Fax (214) 357-7532 - [www.neogard.com](http://www.neogard.com)