

Product Data Sheet

AL400 TC (451JB)

Aliphatic Urethane Topcoat



Description: AL400 TC series (Hempel 451JB) is a single-component, aliphatic urethane topcoat

Recommended use: As a weather protective topcoat for pedestrian and vehicular traffic-bearing waterproofing systems. Areas include parking garages, stadiums, balconies, plaza decks, pedestrian walkways, and rooftop recreational areas.

Features: Meets California Air Resources Board (CARB) VOC requirements.

Certificates/approvals: LEED v4.1: CDPH v1.2

Availability: Available in North America. Not included in Group Assortment; other regions must confirm.

Colors and packaging:

AL400 TC (451JB16650)	Gray	
AL400 TC (451JB23820)	Tan	
AL400 TC (451JB16660)	Light Gray	5-gallon pail (all versions)
AL400 TC (451JB19990)	Black	
AL400 TC (451JB61300)	Dark Maple	

Some standard colors and/or packaging may have extended lead times and/or minimum quantities. Contact Neogard for additional colors.

Physical constants:

Tensile strength	3200 psi	ASTM D412
Elongation	268%	ASTM D412
Permanent set	<20%	ASTM D412
Tear resistance	420 pli	ASTM D1004
Water resistance	1%, 7 days	ASTM D471
MVT at 20 mils	2.5 English Perm	ASTM E96
Taber abrasion	10 mg/1,000 CS-17	ASTM D4060
Shore A	88–92	ASTM D2240
Adhesion	>410 psi	ASTM D4541

Weight/gallon	9.65 lbs/gal ± 0.25	ASTM D1475
Weight solids	85% ± 3.0%	ASTM D5201
Volume solids	80% ± 2.0%	ASTM D5201
VOC	<60 g/L	ASTM D5201
Viscosity	4000 cps	ASTM D2196
Flash point		Refer to SDS
Shelf life	1 year	
Cure to recoat at 75°F/23°C, 50% relative humidity	8–12 hours	

The above tested results are typical values. Individual lots may vary. Further technical information can be found at www.neogard.com.

Application details:

Application method: Roller or squeegee
Thinner (max.vol.): Hempel's 086JB may be added not to exceed 5% by vol. or 6 oz/gal. when product exhibits higher viscosity or heavy settling. Contact Neogard for other thinner options.

Accelerator: Not recommended.
Mixing: Mix for 3–5 minutes before applying; Jiffy Mixer paddle recommended
Pot life: NA for single-component, unaccelerated urethane

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Cleaning of tools:	Acetone or other VOC compliant multi-purpose solvents. Confirm compliance with Local, State and Federal air quality rules before use.
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.
Application conditions:	Substrate temperature must be between 40°F/4°C and 110°F/43°C.
Preceding coat:	According to Neogard Guide Specifications.
Additives:	7986 (994JB00000): Odor mask, synthetic vanilla scent.
Storage temperature & shelf life:	Store in a cool area to ensure full shelf life of 1 year. Recommended temperature: 75°F/23°C.
Remarks:	Not recommended for constant immersion. Do not apply over asphaltic compounds. For on-grade applications, substrates constructed over unvented metal decks or between-slab applications, contact Neogard Technical Service. Thinning does not hinder performance though may prolong curing.

Note: **AL400 TC is for professional use only.**

Issued by: Hempel (USA) – 453JB

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 (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. 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.

AL400 TC ja 10312025

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