

TECHNOMELT® PUR 149C

December 2023

Product description

TECHNOMELT® PUR 149C provides the following product characteristics:

Technology	Polyurethane
Application	Flat lamination
Appearance	Off - white

Product properties

TECHNOMELT® PUR 149C is a one-component polyurethane reactive hot melt adhesive. It is designed to give aggressive tack, long open time and high green strength. The product cures through reaction with moisture to form a tough, strong, and virtually thermoset polymer.

Application areas

TECHNOMELT® PUR 149C can be used for lamination of sandwich panel elements of wood, lauan, fiberboard, particleboard, plywood, FRP, EPS foam, PU foam, and surface-treated metals.

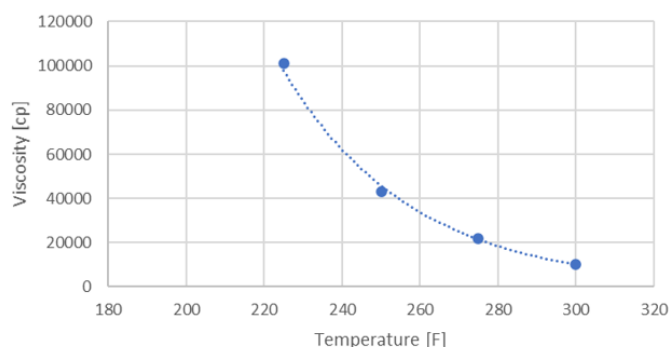
Technical data

TECHNOMELT® PUR 149C:

Solids content, %	100
Viscosity, 250 °F, mPa.s (cP)	Approx. 14000
Density, (lbs)	8.8
Open time, minutes	4 - 5

Open time will vary depending to a large extent on the thermal conductivity of the substrate being coated. With surfaces that are good insulators (such as wood, foamed plastics and high pressure laminate), the open time may be extended; while with metals, open time may be shortened.

149C Viscosity Curve



Directions for use

Preliminary statement

Prior to use it is necessary to read the **Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Application

TECHNOMELT® PUR 149C can be applied by roll coater, slot coater, or extrusion heads adapted for reactive hot melts.

Recommended application temperature is 250 - 275°F.

Depending on the processing and performance needs of the application, temperatures may vary. However, Adhesive temperatures above 300°F should be avoided. NOTE: Use only with adequate forced ventilation. READ PRECAUTIONS BEFORE USING ADHESIVE.

Panel bonding

Apply TECHNOMELT® PUR 149C to one piece of substrate at between 9 - 12 g/square foot. Assemble parts within recommended open time and pass through a nip roller within recommended closed assembly time and then dead stack overnight. To ensure good bonding, parts must be assembled and nipped within recommended open time and closed assembly time. Contact your Henkel technical service representative for optimum operating parameters.

Assembly bonding

Depending on the substrates and the application, TECHNOMELT® PUR 149C may be applied as a globule or in a bead 1/8" or more in diameter. Parts should be combined with pressure applied by nip rolls, pneumatic clamps or a cold press. A handling bond is attained as soon as the adhesive cools. To ensure good bonding, parts must be combined and pressed within recommended open time and closed assembly time.

Processing

Reactive hotmelt adhesives have a limited thermal stability even when working at the specified working temperatures. Therefore, we recommend that a period of 4 hours without production, that the unit is either switched off, or the set temperatures on the unit be reduced to 60 °C.

Curing

Curing is accomplished through reaction with moisture. The moisture can be provided by the substrate, through absorption from the atmosphere, or a combination of both. Under extremely dry conditions a light water-mist will help the cure. High temperatures accelerate curing.

Cleaning

Henkel offers a selection of TECHNOMELT®PUR Cleaners to facilitate the removal of cured and uncured materials. To clean hoses and nozzles, use TECHNOMELT®PUR Cleaner 2, Cleaner 4, Cleaner ME or Cleaner All-In-One. To clean uncured material from the rolls of roll coaters, use Cleaner 785A. To facilitate removal of cured material from the rolls of roll coaters, use Cleaner 7. TECHNOMELT®PUR Cleaner 3030 and M-O-C may be used to remove uncured hot melt from surfaces. Some cured material may require removal by mechanical means or the use of a special solvent for removal (e.g., n-methyl pyrrolidone) if necessary.

Handling Information

This product contains isocyanate. Read SDS before handling and using this product. Store in a dry area at 60 - 95°F. Use only in equipment intended for reactive hot melts. Do not use in conventional hot melt equipment. Forced ventilation must be provided over applicator and melting equipment to remove any small amount of isocyanate vapors to the outside. All users of RHM products should maintain an ongoing industrial hygiene program. This program should include contingency provisions in the event of ventilation failure as well as MDI monitoring.

Storage

Rotate stock and use oldest material first. Do not expose to the atmosphere or otherwise contaminate with moisture. Moisture contamination will cause a sharp melt viscosity increase and a cured skin on top of the container. Containers must be used completely after opening. Do not attempt to reseal.

Shelf life

Shelf-life (in unopened original packaging), months 6

Classification

Please refer to the corresponding **Safety Data Sheet** for details on:

Hazardous Information**Transport Regulations****Safety Regulations****Additional information****Disclaimer**

The information provided in this Technical data sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical data sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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Reference 1

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For more information, please contact us on www.henkel.com