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Technical Data Sheet

LOCTITE® ABLESTIK 286

November 2024

PRODUCT DESCRIPTION

LOCTITE® ABLESTIK 286 provides the following product characteristics:

Technology (Part A)	Epoxy
Technology (Part B)	Amine
Appearance - Part A	White paste
Appearance - Part B	White paste
Product benefits	• Two component • Easy mix ratio • Thermally conductive • Room temperature cure • Thixotropic
Components	Two components - requires mixing
Mix Ratio, by volume -Part A: Part B	100 : 100
Mix Ratio, by weight -Part A: Part B	100 : 180
Cure	Room temperature cure
Application	Assembly, Non electrically conductive adhesive
Key substrates	Most metals and Most plastics
Operating temperature range	-55 to 105 °C

LOCTITE® ABLESTIK 286 offers the proper amount of thixotropy to assure minimum flow without sacrificing wetting. It is ideal for use in piping applications and on a wide variety of maintenance and production requirements. LOCTITE® ABLESTIK 286 is also available in the color blue.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A properties

Density, ASTM D792, g/cm^3	1.21

Part B properties

Density, ASTM D792, g/cm^3	2.0

Mixed properties

Density, ASTM D792, g/cm^3	1.71
Work life, (100 g) @ 25°C, minutes	30
Shelf life @ 25°C, days	548
Flash point - see SDS	

TYPICAL CURING PERFORMANCE

Cure schedule

24 hours @ 25°C
4 hours @ 45°C
2 hours @ 65°C

For optimum performance, follow the initial cure with a post cure of 2 to 4 hours at the highest expected use temperature.

The above cure profiles are guideline recommendations. These conditions (time and temperature) may vary based on customers' experience and specific application requirements, as well as customer curing equipment, oven loading and actual oven temperatures.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical properties

Coefficient of thermal expansion, ASTM D3386, ppm/°C	36
Thermal conductivity, ASTM D2214, W/(m-K)	1.04

Electrical properties

Volume resistivity, @ 25°C, ASTM D257, ohm-cm	1 x 10^{15}

TYPICAL PERFORMANCE OF CURED MATERIAL

Miscellaneous

Flexural strength, ASTM D790	N/mm^2 (psi)	83 (12,000)
Tensile lap shear strength, ASTM D1002, Al to Al @ 25°C	N/mm^2 (psi)	15.2 (2,200)

GENERAL INFORMATION

Please consult the Safety Data Sheet (SDS) for safe handling information of this product.

Directions for use

1. Complete cleaning of the substrates should be performed to remove contamination such as oxide layers, dust, moisture, salt and oils which can cause poor adhesion or corrosion in a bonded part.
2. Some filler settling is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use. Power mixing is preferred to ensure a homogeneous product.
3. Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.

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4. Blend components by hand, using a kneading motion, for 2 to 3 minutes and scrape the bottom and sides of the mixing container frequently to produce a uniform mixture.
5. If possible, power mix for an additional 2 to 3 minutes. Avoid high mixing speeds. This can entrap excessive amounts of air. It can also cause overheating of the mixture, resulting in reduced working life.
6. Apply adhesive to all surfaces to be bonded and join together.
7. In most applications only contact pressure is required.
8. Certain resins and hardeners are prone to crystallization. If crystallization does occur, warm the contents of the shipping container to 50 to 60°C until all crystals have dissolved. Shipping container must be loosely covered during the warming stage to prevent any pressure build-up.

Not for product specifications
The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on the specifications of this product.

Storage

Store in original, tightly covered containers in clean, dry areas. Storage information may be indicated on the product container labeling.

Optimal storage: 25°C

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel representative.

Conversions
(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm² x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer
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