

REF: 40300.40DDS
Issued: 12th February 2021

PU40300/40D SINGLE COMPONENT MOISTURE CURING LAMINATING ADHESIVE

DESCRIPTION

PU40300/40D is a single component sprayable moisture curing urethane adhesive. It has been developed for fast spray applications in the foam and textile bonding industry. The adhesive gives excellent bonds to PU foam, scrim and fabrics.

PRODUCT APPLICATION

Economical:	Its ease of spreading, high solids content and one way stick characteristics ensure fast, low cost coverage.
Strong, resilient, flexible bond:	Besides the diversity of the materials that can be bonded, the cured adhesive exhibits excellent flexibility and resistance to heat, cold, moisture and solvent.
Resistance to high and low temperatures:	The bond line will withstand wide temperature ranges (-40°C to +140°C) for extended periods without loss of strength.

TYPICAL SPECIFICATION

Criteria	Typical Value
Colour:	Unpigmented
Application Method:	Spray
Viscosity @ 23°C:	220 ± 20 mPa.s.
Open Joint Time*:	Nominally 40 seconds at 19°C*.
Press Time*:	Instant
Coverage:	Dependent on substrate porosity
Solvent System:	Ethyl Acetate, Methylene Chloride
Cleaner:	NF5, FS6

* Dependent on local temperature, humidity and substrate characteristics.

This information is for general guidance only and may contain inappropriate information under particular conditions of use. All recommendations and suggestions are therefore made without guarantee. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.

APPLICATION

- Materials to be bonded must be free from surface contamination, dust, grease, etc.
- The recommended application is via airless spray although conventional air spray systems may be used, providing that conditions are carefully monitored.
- Sufficient even pressure must be applied to keep the components in intimate contact until tack has built up. The pressure required will depend upon the nature of the substrates.
- At the end of the application run, it is essential that glue lines and spray heads are thoroughly cleaned. This

is best achieved by flushing the lines and heads with solvent (FS 6 is most suitable for cleaning, however, NF 5 can be used if a non-flammable solvent is preferred).

- Part drums should have nitrogen gas injected into the headspace to prevent skinning of the adhesive or use a desiccator once opened. The drums should then be resealed.

STORAGE & HANDLING

- PU40300/40D is a fast-curing moisture triggered adhesive:
 - The adhesive will start to cure after opening the drum, causing gel/ skinning to form in the drum.
 - The drum should not be left open to atmosphere.
 - When not in use drums should be sealed with the head space filled with dry air or nitrogen
 - If material is pumped directly from a drum, a desiccator column should be fitted to ensure no moisture is brought into the adhesive.
- Storage Below 10⁰C:
 - This can cause the drum to distort, this does not affect product performance as long as the drum is well sealed.
 - The adhesive may become cloudy, this does not affect product performance.
 - Slowly bring the drum to the correct storage temperature before use.

HEALTH & SAFETY

- PU40300/40D contains a non-volatile isocyanate.
- Avoid prolonged contact with skin. In cases of contact with eyes, flush out with excess water and seek medical attention.
- The solvent system contained in this adhesive is predominantly non-flammable and of low toxicity but should be used in well ventilated surroundings.
- There is up to 10% ethyl acetate and up to 50% Methylene Chloride.
- Smoking in the vicinity of the adhesive or contact with red hot surfaces must not be permitted as the vapour inhaled under these conditions can be injurious to health.

ADDITIONAL PRECAUTIONS

- Ensure effective extraction to maintain the working environment below the OEL for Methylene Chloride and Diphenylmethane di-isocyanate and ethyl acetate.
- Use industrial safety gloves.
- Use suitable eye protection.

Before use, ensure that you have read Health and Safety Data Sheet for this product.

The company will supply, upon request, individual advice in writing in connection with the use and application of its products in all appropriate cases. Customers are urged to make use of this service. This leaflet is provided for general guidance only. All recommendations and suggestions are made in good faith but without guarantee and are subject to the company's terms and conditions.