

Truck & Trailer Panel Bonding

NORMOUNT[®]
Acrylic Tape

NORMOUNT® Acrylic A6300 Series

High Performing Acrylic Tape engineered for bonding of truck & trailer body panels

Application :

Welding seams, riveting panels, or other mechanical fasteners were traditional methods for constructing small specialty truck or enclosed trailers. Liquid adhesive systems were later used to bond, or assist in bonding, panels to the trailer frames. Modern construction is enhanced with the recent introduction of high performing pressure sensitive adhesive tapes. Modern tape systems virtually eliminate surface refinishing of welds or the clean up associated with many liquid bonding systems.

Pressure sensitive tapes bond quickly and may be handled immediately in most cases. NORMOUNT® Acrylic tapes minimize, or replace, mechanical fasteners to give a smooth, uninterrupted, panels surface ideal for graphics and easy cleaning. NORMOUNT® Acrylic, the latest



Starting Frame



Tape Application



Liner Removal



Final Assembly

generation acrylic tape, incorporates an advanced acrylic core coupled with a high performing acrylic adhesive. The tapes' good quick stick, fast adhesion

build and long term durability lead help to improve fabrication efficiency and provide cost savings.

Application Techniques :

1. Pressure sensitive adhesives require clean surfaces for bonding. Ensure all surfaces are free of dirt and contaminants. This is normally achieved by wiping with solvent followed by wiping with a clean dry cloth.
2. Apply tape to vehicle body frame. Insure the adhesive makes good contact with the frame by using consistent pressure along the entire length of the taped area.
3. Remove the liner to expose the adhesive, press panels firmly into desired position and roll down to insure good contact between the adhesive surface and the panel.

4. Liner can be disposed of in normal waste or landfill according to your local regulations. Clean-up is easy and simple.

Contact your local Saint-Gobain representative for additional application techniques.

Typical Applications :

Specialty Enclosed Trailers

- Horse trailers
- Race car trailers
- Snowmobile/ATV trailers
- Moving trailers

Panel Trucks

- Food/beverage delivery trucks
- Postal delivery trucks

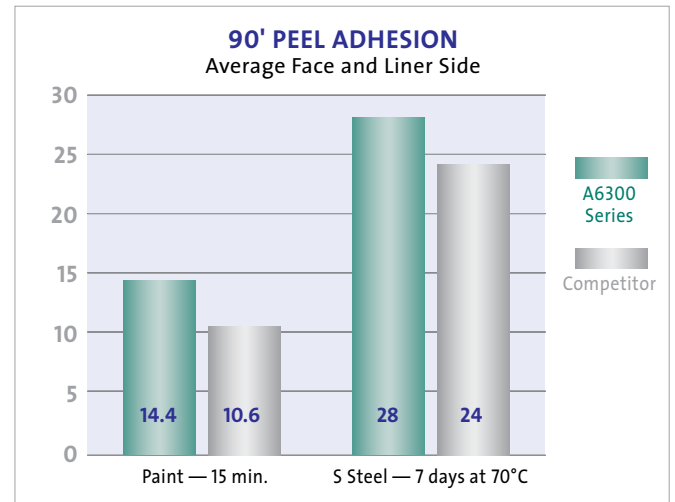
Other

- Emergency vehicles
- RVs, motor homes, campers
- Buses
- Trains
- Marine

Performance Data :

The **NORMOUNT® Adhesive A6300 Series** has been engineered for exceptional adhesion properties to a range of substrates used in the truck and trailer constructions. Designed specifically for best performance in peel mode, it is one of the best of its category. The graph to the right shows peel performance of A6300 Series against a competing acrylic tape. Peel adhesion is a measure of how well a material will hold on when panels expand away from the frame

as the trailer heats up through the day. The A6300 series shows good adhesion with even a short term dwell on painted surfaces, or at higher temperatures over longer exposures.



Features and Benefits :

By Using Bonding Tapes Versus Mechanical Fasteners You Get Substantial Benefits:

Eliminates holes in body panels – Minimizes the potential for corrosion

Pressure sensitive tapes, unlike mechanical fasteners, bond materials without drilling into the surface. The holes needed for most mechanical fasteners can chip or wear away protective coating that can allow corrosion and degrade the life of the trailer.

Fast assembly – lower costs

Tape fabrication is faster than drilling and using most mechanical fasteners. Refinishing is not needed for tapes, unlike most welds or liquid sealants, and the unit can quickly be moved to allow for the next stage in the fabrication process. Faster assembly increases output and lowers assembly cost.

Smoother exterior surface – aesthetically pleasing for graphics or advertising

Tape-bonded panels have a smooth, uninterrupted, appearance that avoids the unsightly rivet lines or protrusions from welds. The flat surface is ideal for custom painting or film graphics turning your truck or trailer into a rolling advertisement.

By Using NORMOUNT® Acrylic You Get Additional Benefits:

Aggressive Adhesive – Faster Assembly

The adhesive system is specially formulated with high tack and quick build. No need for temporary fastening devices while the adhesive strength builds. Once a panel is in place it stays.

Easy Release Liner – Fast easy Removal

Unlike other tapes that use paper liners, NORMOUNT® Acrylic incorporates a release coated high strength polyethylene liner that will not fall off prematurely, but is easy to start and removes with little effort.

Range of Thicknesses – Suitable for your Specific Design

The A6300 Series is available in gauges as thin as 0.4mm up to 1.5mm. This wide range of thicknesses will allow the Engineer to optimize the joint design to achieve maximum performance while still achieving the desired look.

Unique Viscoelastic Foam – Absorbs Shock and Dampens Vibration

Vehicle vibration often contributes to pulled rivets, weld point shearing and cracking. Designed for this market, NORMOUNT® Acrylic A6300 Series incorporates a unique foam structure that can absorb shock and dampen vibration.



PERFORMANCE PLASTICS

Saint-Gobain Performance Plastics
Avenue du Parc 18
B4650 Chaineux, Belgium
Tel: (32) 87-32-20-11
Fax: (32) 87-32-20-51
sgppl.chaineux@saint-gobain.com

13 Earlstrees Road
NN17 4NP Corby, Northants
Great Britain
Tel. 44-1536 276 000
Fax 44-1536 203 427

One Sealant Park
Granville, New York 12832
USA
Tel: (800) 724-0883
Fax: (518) 642-2793

10801-5 Haramura Suwa-Gun
Nagano, 391-0106
Japan
Tel: 81 (2) 266-79-6400
Fax: 81 (2) 266-70-1001

13th floor, Dongshin Bldg.
141-28 Samsun-Dong
Kangnam-Ku, Seoul 135-090
Korea
Tel: 82 (2) 508-8200
Fax: 82 (2) 554-1550

Suite 1203, No. 147
Chienkwo North Road Section 2
Taipei Taiwan, 104
Taiwan
Tel: 886 (2) 25034201
Fax: 886 (2) 25034202

1468 Kun Yang Road
Minhang Development Zone
Shanghai 200245
Tel. 86-21 5472 1568
Fax 86-21 5472 2378

Devanahalli Road,
Via Old Madras Raod
Bangalore 560 049
India
Tel: 91 (80) 2847-2900
Fax: 91 (80) 284-72616

R. Antonio Matheus Sobrino, 120
Vinhedo-SP Brasil
CEP: 13.280-000
Tel: 55 (19) 2127-8532/2127-8530
Fax: 55 (19) 2127-8540

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