

Technical data sheet



Product: 90

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBSTOFF

Article group: AEROSOL

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3M™ SCOTCH-WELD™ HIGH STRENGTH 90

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Scotch-Weld™

High Strength 90 Adhesive

Product Data Sheet

Updated : February 2011
Supersedes : December 2007

Product Description

High Strength 90 Adhesive is an aerosol adhesive designed for a wide variety of applications requiring high initial strength and fast development of ultimate strength. In some cases, the performance of Spray Adhesive 90 is comparable to that of a conventional brush applied contact adhesive. The bonds have excellent resistance to water and long term ageing.

Physical Properties

Not for specification purposes

Base	Synthetic Elastomer	
Solvent	Cyclohexane, Pentane and Acetone	
Flash Point	-41°C	
Propellant	Dimethyl Ether	
Contents	350g (500ml)	
Solids Content	13.0% approximately	
Colour	Clear/Pale Cream	
Shelf Life	12 months from date of receipt by customer when stored in the original carton at 21°C (70°F) & 50 % Relative Humidity	

Performance Characteristics

Not for specification purposes

Service Temperature Range	-32°C to +80°C	
Water Resistance	Good	
Weathering Resistance	Good	
Fuel and Oil Resistance	Poor	

Strength of Adhesive

Peel Strength

Canvas (No. 10 Cotton Duck) was bonded to the following substrates by applying methylene chloride free Spray Adhesive 90 to both surfaces.

Bonds were made at a 5 minutes open time and pulled in 180° peel at the rate of 50mm per minute. Bonds were dried one day at 24°C and 3 days at 50°C before testing.

High Strength 90 Adhesive

Substrate	180° Peel Strength N/cm
Aluminium	47 - 55
Cold Rolled Steel	47
Polypropylene	39 - 47
Polyethylene	19 - 24
ABS	43 - 55
Nylon	59 - 70
PVC	47 - 55
Perspex	55 - 63
Polycarbonate	63 - 71
Butyl Rubber	8 - 10
EPDM Rubber	10 - 12
Natural Rubber	5 - 6
Neoprene Rubber	6 - 8
Nitrile Rubber	4 - 5
SBR	3 - 5

Storage Conditions

Cool, dry place. Storage temperatures must not exceed 49°C. Best results are obtained when material is stored and applied at room temperature, 16°C to 27°C.

Applications

Spray 90 Adhesive is suitable for bonding most lightweight materials, woods, rubber, glass and many other lightweight materials including upholstery foam and fabrics. It will also bond hard to hold materials such as some decorative laminates and veneer edging, polypropylene and polyethylene. Suitable for bonding supported vinyl, but should be checked for plasticiser migration.

Health & Safety Information

Refer to product label and Material Safety Data Sheet for health and safety information before using the product.
For information please contact your local 3M Office. 3M Svenska AB, Industri, 191 89 Sollentuna
www.3M.se

Directions for Use

Ensure all surfaces to be bonded are clean, dry and free from dust, oil or grease before application of adhesive.

Ensure that the nozzle points away from all persons and towards the surface to be sprayed. Select the spray pattern required by turning the nozzle between the "L" and "H" positions indicated on the plastic collar. Do not try to force the nozzle beyond these settings. This also changes the spray pattern width as follows:

Low Setting - approx 2cm wide.

High Setting - approx 7cm wide.

Shake the can well before using, 5-10 seconds should be sufficient.

Hold the can 12 to 18 cm from the surface to be sprayed. A narrowing of the pattern will occur if held more than 18cm from the surface to be sprayed.

When spraying, depress the nozzle fully to avoid spluttering or dripping of adhesive.

For best results apply Spray 90 Adhesive to both bonding surfaces. Bonds can be made approximately 30 seconds after application. To achieve high initial strength allow 2 to 3 minutes before bonding for ultimate initial strength allow 5 to 10 minutes before bonding. All bonds must be made within 10 to 15 minutes after application.

For lightweight materials it is usually only necessary to coat one surface, the least porous, bonds should be made whilst adhesive is wet/aggressively tacky, usually within 1 minute of application.

After bringing surfaces together, press firmly.

To prevent nozzle from blocking, at the end of each day turn the can upside down and press tip until spray is clear from adhesive and wipe tip.

Clean Up:

Spray nozzle or excess material may be cleaned with Scotch-Weld Solvent No. 1.

NOTE: Scotch-Weld Solvent No. 1 is highly flammable. When using solvents for clean up it is essential that proper safety precautions are observed.

Coverage:

Approximately 3.7 square metres per container.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law

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