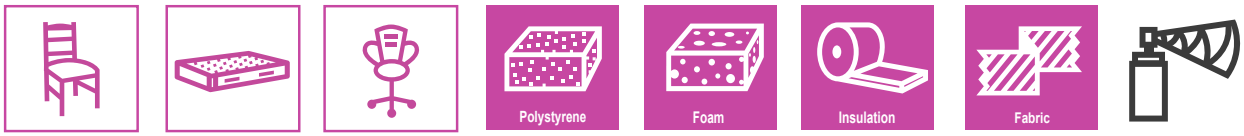
F40 FAST DRY PRESSURE SENSITIVE ADHESIVE

DATA SHEET

Tensorgrip®



As part of our **FOAM & FABRIC** range, **F40** is a web spray adhesive designed for use in Domestic Furniture, Mattress and Office Furniture applications using the substrates listed.

PRODUCT DESCRIPTION

TensorGrip® F40 is an well rounded, capable adhesive. Its aggressive and fast-drying pressure sensitive properties make it ideal for bonding a vast range of porous substrates while still maintaining tackiness and the ability to bond to polystyrene.

ADVANTAGES

- Very fast drying
- Long lasting high tack (pressure sensitive)
- Moisture and weather-resistant bond
- Non-chlorinated
- Will not attack polystyrene
- Full strength achieved in 24 hours
- 155°F (68°C) temperature resistant
- No chlorinated solvents
- No ODS (ozone depleting substances)

DIRECTIONS FOR USE

- **TensorGrip® F40** is designed as a portable, self-contained spray system for field or shop applications.
- Apply adhesive to one or both surfaces to be mated, at 80% to 100% coverage.
- Allow enough time (2-4 minutes or until dry to the touch) for the adhesive to become tacky before bonding.
- Parts should be mated with as much pressure as practical.
- Normal coverage required with web spray pattern is approximately 80%; however, porous surfaces may need a second coat. Initial bond is strong enough to allow cutting or trimming immediately, although ultimate strength is achieved in 1-3 days.
- Canister system will spray adequately above 60º F. Canister system should be kept in warm area. In the event that the canister gets abnormally chilled, freezes or gives poor or sputtering spray, it should be warmed up before continued usage. Warming canister by immersion in warm water is recommended.
- Notice!!! Do not store at temperatures over 120º F.

CANISTER STORAGE/CHANGE OVER

- If you choose to leave the hose and spray gun on the canister, leave the valve on the canister open. Do not disconnect the hose/gun from the canister. Close and lock the spray gun.
- To change or disconnect canister: turn canister valve to the off position, spray out remaining adhesive left in the hose, disconnect the spray hose and gun from the canister.
- Reconnect the spray hose to a new canister of adhesive. OR if you are NOT connecting to a new canister, connect hose to canister of cleaning solvent (sold separately) and spray out until liquid is clear which indicates that the hose and gun is clean.

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F40 FAST DRY PRESSURE SENSITIVE ADHESIVE

DATA SHEET

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CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

• Total Solids	26-32%
• VOC Content	542 g/L
• Color	Clear; Aerosols Green Only
• System Flammability	Flammable Adhesive; Flammable Propellant
• Solvent System	Flammable
• Dry time	2-4 mins dependent on temp & humidity
• Open time	Long
• Shelf Life	18 months from date of manufacture

PACKAGING

• 22L	Disposable Canister
• 108L	Returnable Canister
• 216L	Returnable Canister

STORAGE

HANDLING & STORAGE

- Consult Material Safety Data Sheet prior to use.
- Do not store at temperatures over 120°F/50°C.
- Avoid exposure to direct sunlight.
- Do not store directly on concrete floor.
- Always store above 60°F/15°C
- When connected, keep valve open and hose pressurized at all times
- Always test our adhesives to determine suitability for your particular application prior to use in production

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Tensorgrip®

SAFETY DATA SHEET

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

1. Identification

Product identifier

Product name Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Product number USA

Recommended use of the chemical and restrictions on use

Application Aerosol Spray Adhesive

Details of the supplier of the safety data sheet

Supplier

Quin Global
5710 F St
(402) 731 3636
(402) 731 1473
marketing.us@quin-global.com

Emergency telephone number

Emergency telephone Chemtrec: 1 800 424 9300

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards

Aerosol 2 - H223, H229 Press. Gas, Compressed - H280

Health hazards

Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H335, H336

Environmental hazards

Aquatic Chronic 2 - H411

Human health

The liquid may be irritating to eyes, respiratory system and skin. Symptoms following overexposure may include the following: Headache. Dizziness. Nausea, vomiting.

Label elements

Pictogram




Signal word Warning

Hazard statements

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

H223 Flammable aerosol.
H229 Pressurized container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapor/spray.
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P410+P403 Protect from sunlight. Store in a well-ventilated place.

Supplemental label information

AT(o) 25.12% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
AT(d) 25.12% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

Contains Dimethyl Ether, Pentane, Acetone

Other hazards

This product does not contain any substances classified as PBT or vPvB.

Other hazards

3. Composition/information on ingredients

Substances

Mixture Statement

Mixtures

Dimethyl Ether **CAS number:** 115-10-6 **REACH registration number:** 01-2119472128-37-XXXX	**60-100%**
Classification Flam. Gas 1 - H220 Press. Gas, Liquefied - H280 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2B - H320 STOT SE 3 - H335, H336	

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Pentane **CAS number:** 78-78-4 **M factor (Acute) =** 1	**10-30%**
Classification Flam. Liq. 1 - H224 Eye Irrit. 2A - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	
Acetone **CAS number:** 67-64-1	**1-5%**
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 STOT SE 3 - H336	

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information

Remove affected person from source of contamination. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.

Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

Ingestion

Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Skin Contact

Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. Remove contaminated clothing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Only remove contact lenses if the person is conscious, coherent and they can remove them themselves If adhesive bonding occurs, do not force eyelids apart. Continue to rinse for at least 15 minutes. If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

Inhalation

May cause coughing and difficulties in breathing. May cause eye and respiratory system irritation. Overexposure may depress the central nervous system, causing dizziness and intoxication.

Ingestion

Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May Cause the following effects: Gastrointestinal symptoms, including upset stomach. Central nervous system depression. Nausea, vomiting. Entry into the lungs following ingestion or vomiting

may cause chemical pneumonitis.

Skin contact

May be absorbed through the skin. Product has a defatting effect on skin. The liquid is irritating to eyes and skin. A single exposure may cause the following adverse effects: Dryness and/or cracking.

Eye contact

Causes serious eye irritation. Burns can occur. A single exposure may cause the following adverse effects: Pain. Conjunctivitis, irritation, tearing. Prolonged or repeated exposure may cause the following adverse effects: Irritation of eyes and mucous membranes. Prolonged contact causes serious eye and tissue damage.

5.Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards

Pressurized container: Must not be exposed to temperatures above 50°C/120°F Containers can burst violently or explode when heated, due to excessive pressure build-up. Vapors are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

For personal protection, see Section 8. No smoking, sparks, flames or other sources of ignition near spillage.

Environmental precautions

Environmental precautions

Avoid discharge into drains. Contain spillage with sand, earth or other suitable non-combustible material.

Methods and material for containment and cleaning up

Methods for cleaning up

Stop leak if possible without risk. No smoking, sparks, flames or other sources of ignition near spillage. Avoid the spillage or runoff entering drains, sewers or watercourses. Eliminate all sources of ignition. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

7. Handling and storage

Precautions for safe handling

Usage precautions

Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Container must be kept tightly closed when not in use. Use explosion proof electric equipment. Avoid discharge into drains or watercourses or onto the ground.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage precautions

Keep away from heat, sparks and open flame. Keep container tightly closed. Keep only in the original container. Pressurized container: Must not be exposed to temperatures above 50°C/120°F

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Specific end uses(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Dimethyl Ether

Long-term exposure limit (8-hour TWA): WEEL:US.AIHA = Workplace Environmental Exposure Level Guides 1000 ppm

Pentane

Long-term exposure limit (8-hour TWA): ACGIH 600 ppm

Acetone

Long-term exposure limit (8-hour TWA): ACGIH 500 ppm
Short-term exposure limit (15-minute): ACGIH 750 ppm
A4
Long-term exposure limit (8-hour TWA): OSHA 1000 ppm 2400 mg/m³
Ceiling exposure limit: NIOSH: National Institute of Occupational Safety and Health 250 ppm 590 mg/m³ vapour

ACGIH = American Conference of Governmental Industrial Hygienists.

A4 = Not Classifiable as a Human Carcinogen.

OSHA = Occupational Safety and Health Administration.

Acetone (CAS: 67-64-1)

Immediate danger to life and health

2500 ppm

Exposure controls

Protective equipment


Appropriate engineering controls

This product must not be handled in a confined space without adequate ventilation. Avoid inhalation of vapors and spray/mists. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.

Eye/face protection

Wear chemical splash goggles.

Hand protection

Use protective gloves.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

Hygiene measures

DO NOT SMOKE IN WORK AREA! When using do not eat, drink or smoke. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

9. Physical and Chemical Properties

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Information on basic physical and chemical properties

Appearance
Aerosol.

Color
Clear. Blue.

Odor
Organic solvents.

Initial boiling point and range
-25°C/-13°F @ 1013.25 mbar

Flash point
-41°C/-42°F Not specified.

Upper/lower flammability or explosive limits
Lower flammable/explosive limit: 3.4 g/100 g Upper flammable/explosive limit: 18 g/100 g

Vapour pressure
Not determined.

Vapour density
Not determined.

Relative density
.708

Solubility(ies)
Negligibly soluble in water

Volatile organic compound
This product contains a maximum VOC content of 574.04 g/l.

10. Stability and reactivity

Stability
Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions
Will not polymerize.

Conditions to avoid
Avoid heat, flames and other sources of ignition. Reducing agents. Oxidizing agents. Avoid contact with the following materials:

Materials to avoid
None known.

Hazardous decomposition products
Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)
10,400.0

Acute toxicity - dermal

ATE dermal (mg/kg)
22880.0

Acute toxicity - inhalation

ATE inhalation (gases ppm)

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

7500.0

ATE inhalation (vapours mg/l)

305.55555556

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Toxicological information on ingredients.

Dimethyl Ether

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} gases ppmV)

308.5

Species

Rat

ATE inhalation (gases ppm)

4500

Carcinogenicity

Does not contain any substances known to be carcinogenic.

Specific target organ toxicity - single exposure

STOT - single exposure

May cause respiratory irritation. Central nervous system depression. Skin and eye irritation.

Aspiration hazard

No data available.

Medical Symptoms

Central nervous system depression. Frostbite. Respiratory system irritation. Skin irritation. Eye irritation.

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Pentane

Acute toxicity - oral

ATE oral (mg/kg)

100.0

Acute toxicity - dermal

ATE dermal (mg/kg)

1100

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)

1280.0

Species

Rat

ATE inhalation (vapours mg/l)

11.0

Serious eye damage/irritation

Irritation of eyes is assumed.

Germ cell mutagenicity

Genotoxicity - in vitro

Ames Test Results: Negative.

Specific target organ toxicity - single exposure

STOT - single exposure

May cause drowsiness or dizziness

Specific target organ toxicity - repeated exposure

STOT - repeated exposure

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

General information

Absorbtion of large quantities may cause: Dizziness. Euphoria. Agitation. Convulsions. Narcosis.

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Acetone

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)

5,800.0

Species

Rat

ATE oral (mg/kg)

500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)

20000.0

Species

Rabbit

ATE dermal (mg/kg)

1100

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} dust/mist mg/l)

76.0

Species

Rat

ATE inhalation (vapours mg/l)

11.0

Specific target organ toxicity - single exposure

STOT - single exposure

May cause drowsiness or dizziness

Inhalation

Mucosal irritations. Absorption.

Ingestion

Irritating. May cause nausea, stomach pain and vomiting. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin Contact

This product is moderately irritating. May be absorbed through the skin. Repeated exposure may cause skin dryness or cracking.

Eye contact

This product is strongly irritating. Risk of corneal clouding.

Route of entry

Inhalation Skin and/or eye contact

Target Organs

Eyes

12. Ecological Information

13. Disposal considerations

Waste treatment methods

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

Air transport notes 1. <75kg, 2. <150kg

UN Number

UN No. (DOT) Limited Quantity <1L, Aerosol

UN No. (ICAO) 1950

UN proper shipping name

Proper shipping name (DOT) 1950 - Aerosols, Flammable (Dimethyl Ether, Isopentane)

Transport hazard class(es)

DOT hazard class 2.1

Transport labels

Packing group

Not applicable.

15. Regulatory information

Inventories

US - TSCA

Present

Dimethyl Ether

Pentane

Acetone

16. Other information

Revision date 3/9/2015

Revision 2

Supersedes date 2/11/2015

SDS No. 20534

Hazard statements in full

H223 Flammable aerosol.
H229 Pressurized container: may burst if heated.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H320 Causes eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

ACA HMIS Health rating. Moderate hazard. (2)

ACA HMIS Physical hazard rating. Normally stable. (0)

Tensorgrip F40AA Fast Dry Pressure Sensitive Adhesive

ACA HMIS Personal protection rating.	B
ACA HMIS Flammability rating.	Extremely flammable. (4)