

F40

FAST DRY PRESSURE SENSITIVE ADHESIVE

DATA SHEET

TensorGrip®



Polystyrene



Foam



Insulation



Fabric



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 60° 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 120° 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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ECR23-040-0124

F40

FAST DRY PRESSURE SENSITIVE ADHESIVE

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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

DISCLAIMER OF WARRANTY: Quin Global makes neither warranty of merchantability or fitness for any use nor any other warranty, express or implied, in the sales of its products. Buyer assumes all risk and liability for the results obtained by the use of its products, whether used singly or in combination with other products.

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Tensorgrip

SAFETY DATA SHEET Tensorgrip F40 Fast Drying Contact Adhesive

1. Identification

Product identifier

Product name Tensorgrip F40 Fast Drying Contact Adhesive
Product number USA

Recommended use of the chemical and restrictions on use

Application Canister 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

Flam. Gas 2 - H221 Aerosol 2 - H223, H229

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 F40 Fast Drying Contact Adhesive

- H221 Flammable gas.
- H223 Flammable aerosol.
- H229 Pressurized container: may burst 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

- 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.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Supplemental label information

- AT(o) 31.4% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- AT(d) 31.4% 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	30-60%
CAS number: 115-10-6 REACH registration number: 01-2119472128-37-XXXX	
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	
Pentane	30-60%
CAS number: 78-78-4	
M factor (Acute) = 1	
Classification	
Flam. Liq. 1 - H224	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Chronic 2 - H411	

Tensorgrip F40 Fast Drying Contact Adhesive

Acetone CAS number: 67-64-1	1-5%
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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. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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

Tensorgrip F40 Fast Drying Contact Adhesive

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. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. 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

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

Tensorgrip F40 Fast Drying Contact Adhesive

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

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

Information on basic physical and chemical properties

Appearance

Aerosol.

Color

Clear. Red.

Odor

Tensorgrip F40 Fast Drying Contact Adhesive

Organic solvents.

Initial boiling point and range

Not determined.

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

.7087

Solubility(ies)

Negligibly soluble in water

Volatile organic compound

This product contains a maximum VOC content of 552.55 g/l.

10. Stability and reactivity

Stability

Stable at normal ambient temperatures and when used as recommended.

Conditions to avoid

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

Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl). Hydrocarbons. Aldehydes.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)

7,622.22222222

Acute toxicity - dermal

ATE dermal (mg/kg)

16768.88888889

Acute toxicity - inhalation

ATE inhalation (gases ppm)

9000.0

ATE inhalation (vapours mg/l)

244.44444444

Toxicological information on ingredients.

Tensorgrip F40 Fast Drying Contact Adhesive

Dimethyl Ether

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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 F40 Fast Drying Contact 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 (LC₅₀ 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

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

Tensorgrip F40 Fast Drying Contact Adhesive**Acetone****Acute toxicity - oral****Acute toxicity oral (LD₅₀ mg/kg)**

5,800.0

Species

Rat

ATE oral (mg/kg)

500.0

Acute toxicity - dermal**Acute toxicity dermal (LD₅₀ mg/kg)**

20000.0

Species

Rabbit

ATE dermal (mg/kg)

1100

Acute toxicity - inhalation**Acute toxicity inhalation (LC₅₀ 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 F40 Fast Drying Contact Adhesive

Air transport notes Cargo aircraft only. <75kg

UN Number

UN No. (DOT) 3501

UN No. (ICAO) 3501

UN proper shipping name

Proper shipping name (DOT) Chemical Under Pressure, Flammable, N.O.S. (Dimethyl Ether, Pentane)

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 3/10/2015

Revision 2

Supersedes date 2/11/2015

SDS No. 20587

Hazard statements in full

- H221 Flammable gas.
- 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 F40 Fast Drying Contact Adhesive

ACA HMIS Personal protection rating.

B

ACA HMIS Flammability rating.

Ignites easily. (3)

Disclaimer

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, many of which are solely within the user's knowledge and control, the user is responsible for determining whether the manufacturer of this product is fit for a particular purpose and suitable for users' method of use or application. It is essential that the user evaluate this product, not the manufacturer, to determine whether it is fit for a particular purpose and suitable for users' method of use or application