M28 HIGH TACK CA COMPLIANT CONTACT ADHESIVE

DATA SHEET Tensor



As part of our MARINE range, M28 is a web spray adhesive designed for use in applications using the substrates listed.

PRODUCT DESCRIPTION

TensorGrip M28 is a multi-purpose contact adhesive that effectively bonds a vast range of substrates while maintaining compliance with stringent California VOC requirements (SCAQMD Rule 1168). Formulated with CO-REZ Technology, which is an exceptional formulation incorporating a highly engineered resin and gas matrix. The result: Greater Coverage from Less Canister Weight.

ADVANTAGES

- High tack version of CA compliant contact adhesive
- High build is effective on porous or less smooth surfaces
- Heat resistance above 200° F
- Aggressive High-Strength, Permanent Bond

DIRECTIONS FOR USE

- **TensorGrip M28** is designed as a portable, self-contained spray system for field or shop applications.
- Apply adhesive to 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.

QUIN GLOBAL US

5710 F ST, Omaha NE 68117 PH: +1 402 731 3636 | info.us@quin-global.com | www.quinglobal.com



Tensorgrip

M28 HIGH TACK CA COMPLIANT CONTACT ADHESIVE

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES

- Total Solids
- VOC Content
- Color
- System Flammability
- Solvent System
- Dry time
- Open time
- Shelf Life

PACKAGING

- 7L
- 22L
- 108L
- 216L

- 32-38% 75 g/L Canister Red, Clear Flammable Adhesive; Non-Flammable Propellant Methyl Acetate 2-4 mins dependent on temp & humidity
- Long
- 18 months from date of manufacture
- Disposable Canister Disposable Canister Returnable Canister Returnable Canister

STORAGE

HANDLING & STORAGE

- Consult 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

APPLICATION TOOLS

 Hoses: M130-12 (12' (For all canisters)), M130-18 (18' (For all canisters)) or M130-25 (25' (For 108L & 216L canister)), M130-36 (36' (For 216L canister)) or M130-50 (50' (For 216L canister))

DATA SHEET

Tensor

- Spray Guns: M120 Adj. Spray Gun or M125 18" Wand Adj. Spray Gun
- Spray Tips: 11001B 4"-17" Med/High Build Adj Spray Pattern or 11002B 5" - 22" High Build Adj Spray Pattern

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.

QUIN GLOBAL US

5710 F ST. Omaha NE 68117 PH: +1 402 731 3636 | info.us@quin-global.com | www.quinglobal.com





Revision Date 1/2019

Tensorgrip

SAFETY DATA SHEET TensorGrip M28 High Tack CA Compliant Contact Adhesive

1. Identification		
Product identifier		
Product name	TensorGrip M28 High Tack CA Compliant Contact Adhesive	
Product number	USA	
Recommended use of the che	emical and restrictions on use	
Application	Canister Spray Adhesive	
Details of the supplier of the s	Details of the supplier of the safety data sheet	
Supplier	Tensorgrip 5710 F St Omaha NE 68117 (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. Aerosol 2 - H223	
Health hazards	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Eye Irrit. 2A - H319 STOT SE 3 - H336	
Environmental hazards	Aquatic Chronic 3 - H412	
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	H302+H312 Harmful if swallowed or in contact with skin. H223 Flammable aerosol. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.	

30-60%

10-25%

TensorGrip M28 High Tack CA Compliant Contact Adhesive

Precautionary statements	 P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P412 Do not expose to temperatures exceeding 50°C/122°F.
Supplemental label information	AT(d) 15.15% of the mixture consists of ingredient(s) of unknown acute dermal toxicity. AT(o) 15.15% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
Contains	Methyl Acetate, Pentane

Other hazards

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

3. Composition/information on ingredients

Mixtures

Methyl Acetate	
----------------	--

CAS number: 79-20-9

Classification

Flam. Liq. 2 - H225 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 STOT SE 3 - H336

Pentane

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

The full text for all hazard statements is 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.
	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	
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	he 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, protectiv	ve 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

Environmental precautions	Avoid discharge into drains. Contain spillage with sand, earth or other suitable non- combustible material.	
Methods and material for cont	ainment 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.	
8. Exposure controls/Persona	al protection	
Control parameters		

Occupational exposure limits

Methyl Acetate

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm Short-term exposure limit (15-minute): ACGIH 250 ppm Long-term exposure limit (8-hour TWA): OSHA 200 ppm 610 mg/m³

Pentane

Long-term exposure limit (8-hour TWA): ACGIH 600 ppm ACGIH = American Conference of Governmental Industrial Hygienists. OSHA = Occupational Safety and Health Administration.

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 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	If exposure levels are likely to be exceeded, use a half face mask fitted with an organic vapor filter for short term low level exposures. For long term or high level exposures, a supplied air respirator should be used.

9. Physical and chemical properties

Information on basic physical	Information on basic physical and chemical properties	
Appearance	Aerosol.	
Color	Clear. Red.	
Odor	Organic solvents.	
Flash point	-20°F Not specified.	
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.4% Upper flammable/explosive limit: 16%	
Vapor density	Heavier than air	
Relative density	0.887	
Solubility(ies)	Slightly soluble in water.	
Volatile organic compound	This product contains a maximum VOC content of 75 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.	
Materials to avoid	Avoid contact with strong oxidizing agents. Avoid contact with strong reducing agents. Strong acids. Bases.	
Hazardous decomposition products	Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Aldehydes. Hydrocarbons. Oxides of nitrogen. Cyanides.	
11. Toxicological information		
Information on toxicological e	ffects	
Acute toxicity - oral		
ATE oral (mg/kg)	840.1	
Acute toxicity - dermal ATE dermal (mg/kg)	1,848.22	
Acute toxicity - inhalation		

ATE inhalation (vapours mg/l) 21.78

Toxicological information on ingredients.

	Methyl Acetate
Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	500.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅ mg/kg)	2,000.0
Species	Rat
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅ vapours mg/l)	49.28
Species	Rat
ATE inhalation (vapours mg/l)	11.0
	Pentane
Acute toxicity - oral	
ATE oral (mg/kg)	100.0
Acute toxicity - dermal	
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC₅ vapours mg/l)	1,280.0
Species	Rat
ATE inhalation (vapours mg/l)	11.0
Serious eye damage/irritation	on
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 toxicit	y - repeated exposure

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

Aspiration hazard	1	
Aspiration hazard	Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.	
General informat	ion Absorbtion of large quantities may cause: Dizziness. Euphoria. Agitation. Convulsions. Narcosis.	
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		
Air transport notes	Cargo aircraft only. <75kg	
UN Number		
UN No. (ICAO)	3501	
UN No. (DOT)	3501	
UN proper shipping name		
Proper shipping name (TDG)	Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate, Pentane)	
Proper shipping name (DOT)	Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate, Pentane)	
Transport hazard class(es)		
DOT hazard class	2.1	
Transport labels		
Packing group Packing group (International)	Not applicable.	
15. Regulatory information		
National regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).	
Guidance	CHIP for everyone HSG228. Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.	
US Federal Regulations		
SARA Section 302 Extremely Present.	Hazardous Substances Tier II Threshold Planning Quantities	

Present.

SARA 313 Emission Reporting

Present.

SARA (311/312) Hazard Categories Present.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins Present.

Massachusetts "Right To Know" List Present.

New Jersey "Right To Know" List Present.

Pennsylvania "Right To Know" List Present.

Inventories

Canada - DSL/NDSL Present.

US - TSCA Present.

Present.

16. Other information	
Revision date	12/21/2018
Revision	12
Supersedes date	12/14/2018
SDS No.	22138
Hazard statements in full	 H223 Flammable aerosol. H224 Extremely flammable liquid and vapor. H225 Highly flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
ACA HMIS Health rating.	Slight hazard. (1)
ACA HMIS Flammability rating.	Extremely flammable. (4)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	В

DIRECTIONS FOR USE

PRODUCT LOGO

The information in this Safety Data Sheet (SDS) 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 usage of this product is fit for a particular purpose and suitable for the user's method of use or application. It is essential that the user, not the manufacturer, evaluates this product to determine whether it is fit for a particular purpose and suitable for the user's method of use or application.