

As part of our **INDUSTRIAL** range, C313 is a pebble spray adhesive designed for use in applications using the substrates listed.



High Def/Gloss  
Laminate



Metal /  
Aluminum  
Sheeting



MDF



Post-Forming



CA Compliant



HAPs Free



Pebble Spray



Heat Resistance  
up to 200F/94C

### PRODUCT DESCRIPTION

**Tensorbond® C313** is a low-profile pebble spray contact adhesive with good temperature resistance. Complies with stringent California VOC requirements (SCAQMD Rule 1168). Designed for laminate post-forming and high-gloss laminate applications. Formulated to be brushed on, rolled on or sprayed from an airless or HVLP sprayer.

### ADVANTAGES

- Reduces adhesive telegraphing
- Good Heat Resistance
- Low VOC California Compliant
- No ODS (Ozone Depleting Substances)
- Fast Drying
- Versatile Adhesive, bonding to most any surface

### DIRECTIONS FOR USE

- Apply to both surfaces to be bonded by brushing, rolling or spraying through an air atomized spray system.
- Allow to dry (2-4 minutes or until dry to the touch) parts should be mated under pressure.
- Apply pressure with a hand laminate roller or nip roller. Bonds should be made as soon practical.
- If adhesive is left to dry for over 20 minutes, parts should be recoated.
- 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.

### HANDLING AND 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 product to determine suitability for your particular application prior to use in production

### CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES	
Total Solids	25 – 31%
VOC Content	37 g/L
Color	Clear or Red
System Flammability	Flammable
Solvent System	Methy Acetate
Dry time	2–4 mins dependent on temp & humidity
Open time	20 minutes
Shelf Life	12 months from date of manufacture on un-opened container
Coverage	240 bonded sq ft per gallon at 2.0 dry grams per sq ft

PACKAGING	
PL	5 Gallon Pail
DR	54 Gallon Drum

**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.

# Tensorbond

## SAFETY DATA SHEET Tensorbond C313 CA Compliant Pebble Spray Contact Adhesive

### 1. Identification

#### Product identifier

**Product name** Tensorbond C313 CA Compliant Pebble Spray Contact Adhesive

**Product number** USA

#### Recommended use of the chemical and restrictions on use

**Application** Solvent-based Adhesive

#### Details of the supplier of the safety data sheet

**Supplier** Quin Global USA  
5510 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. Liq. 3 - H226

**Health hazards** Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Eye Irrit. 2A - H319 STOT SE 3 - H336

**Environmental hazards** Aquatic Acute 2 - H401 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

##### Hazard symbols



##### Signal word

Warning

##### Hazard statements

H226 Flammable liquid and vapor.  
H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	P261 Avoid breathing vapor/ spray.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	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.
	P312 Call a poison center/ doctor if you feel unwell.
	P337+P313 If eye irritation persists: Get medical advice/ attention.

**Contains** Methyl Acetate, Heptane

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>Methyl Acetate</b>	<b>60-100%</b>
CAS number: 79-20-9	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Eye Irrit. 2A - H319	
STOT SE 3 - H336	
<b>Heptane</b>	<b>1-5%</b>
CAS number: 142-82-5	
M factor (Acute) = 1	
M factor (Chronic) = 1	
<b>Classification</b>	
Flam. Liq. 2 - H225	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	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.
<b>Inhalation</b>	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.

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<b>Ingestion</b>	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.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	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

<b>General information</b>	High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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. Nausea, vomiting. Central nervous system depression. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
<b>Skin contact</b>	May be absorbed through the skin. Product has a defatting effect on skin. The liquid is irritating to eyes and skin. Remove contaminated clothing. A single exposure may cause the following adverse effects: Dryness and/or cracking.
<b>Eye contact</b>	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** 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.

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### 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.

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in section "1. Identification" under "Application".

## 8. Exposure controls/Personal 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/m<sup>3</sup>

#### **Heptane**

Long-term exposure limit (8-hour TWA): ACGIH 400 ppm

Short-term exposure limit (15-minute): ACGIH 500 ppm

Long-term exposure limit (8-hour TWA): OSHA 500 ppm 2000 mg/m<sup>3</sup>

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

### Exposure controls

#### **Protective equipment**



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<b>Appropriate engineering controls</b>	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.
<b>Eye/face protection</b>	Wear chemical splash goggles.
<b>Hand protection</b>	Use protective gloves.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.
<b>Hygiene measures</b>	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.
<b>Respiratory protection</b>	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 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 and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Clear Red.
<b>Odor</b>	Strong. Solvent.
<b>Odor threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	56°C (133°F)
<b>Flash point</b>	-16.99°C/1.42°F
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	Highly flammable liquid and vapour.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.2 % Upper flammable/explosive limit: 16 %
<b>Vapor pressure</b>	No information available.
<b>Vapor density</b>	No information available.
<b>Relative density</b>	.938
<b>Solubility(ies)</b>	Negligibly soluble in water
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.

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**Volatile organic compound** This product contains a maximum VOC content of 37 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.

**Materials to avoid** Flames and Sparks

**Hazardous decomposition products** Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrocarbons. Aldehydes.

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 686.72

##### Acute toxicity - dermal

ATE dermal (mg/kg) 1,510.78

##### Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 15.11

#### Toxicological information on ingredients.

##### Methyl Acetate

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

Species Rat

ATE oral (mg/kg) 500.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

Species Rat

ATE dermal (mg/kg) 1,100.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 49.28

Species Rat

ATE inhalation (vapours mg/l) 11.0

##### Heptane

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 5,000.0

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<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	500.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	2,000.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	1,100.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	29.3
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	11.0
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	Does not contain any substances known to be carcinogenic.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	May cause drowsiness or dizziness
<b><u>General information</u></b>	
	Absorbtion of large quantities may cause: Narcosis. Death.

### 12. Ecological information

#### Bioaccumulative potential

**Partition coefficient** No information available.

### 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** IATA Pkg Inst 353 1. 5L, 2. 60L

#### UN Number

**UN No. (TDG)** 1133 or Limited Quantity <5L

**UN No. (ICAO)** 1133

**UN No. (DOT)** 1133 or Limited Quantity <5L

#### UN proper shipping name

**Proper shipping name (TDG)** Adhesives

**Proper shipping name (ICAO)** Adhesives

**Proper shipping name (DOT)** Adhesives

#### Transport hazard class(es)



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TDG class 3

TDG label(s) 3

### Transport labels



### Packing group

Packing group (International) II

ICAO packing group II

## 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 (311/312) Hazard Categories**

Present.

#### *Heptane*

Fire  
Acute  
Chronic  
Health hazard

#### *Methyl Acetate*

Fire  
Acute  
Chronic  
Health hazard

### US State Regulations

#### **California Proposition 65 Carcinogens and Reproductive Toxins**

This product does not contain any chemicals known to the State of California to cause cancer, birth or any other reproductive harm.

#### **Massachusetts "Right To Know" List**

Present.

#### *Heptane*

#### *Methyl Acetate*

#### **New Jersey "Right To Know" List**

Present.

#### *Heptane*

#### *Methyl Acetate*

#### **Pennsylvania "Right To Know" List**

Present.

#### *Heptane*

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*Methyl Acetate*

### Inventories

#### Canada - DSL/NDSL

*Heptane*

Present.

*Methyl Acetate*

Present.

#### US - TSCA

Present.

*Heptane*

*Methyl Acetate*

### 16. Other information

<b>Revision date</b>	12/1/2017
<b>Revision</b>	8
<b>Supersedes date</b>	11/16/2017
<b>SDS No.</b>	20466
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapor. H226 Flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
<b>ACA HMIS Health rating.</b>	Moderate hazard. (2)
<b>ACA HMIS Flammability rating.</b>	Ignites easily. (3)
<b>ACA HMIS Physical hazard rating.</b>	Normally stable. (0)
<b>ACA HMIS Personal protection rating.</b>	B

#### DIRECTIONS FOR USE

#### PRODUCT LOGO

## Tensorbond C313 CA Compliant Pebble Spray Contact Adhesive

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.