QDEK®
roofing adhesive

QD2302

PVC MEMBRANE ADHESIVE

QDEK® QD-2302 is a revolutionary high performance, plasticizer resistant adhesive with excellent temperature resistance and complies with stringent California VOC requirements (SCAQMD Rule 1168). QD-2302 is designed to bond PVC Membrane to traditional roofing substrates. 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

- Tenacious, High Strength Bond
- Extreme Heat Resistance
- Labor-Saving Spray-On Adhesive
- Highest Coverage of PVC Membrane Adhesive Canisters
- Low VOC California Compliant
- Fully Portable System

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES	
Total Solids	64–70%
VOC Content	0 g/L
Color	Clear
System Flammability	Flammable
Solvent System	Methyl Acetate
Dry time	2–4 mins dependent on temp & humidity
Open time	20 minutes
Handling Strength Time	1 - 2 hours
Full Cure Time	1 - 3 days
Shelf Life	18 months from date of manufacture
Coverage	10 sq from 22 liter (1,000 sq ft)

PACKAGING	
22L	Disposable Canister

APPLICATION TOOLS

TOOL	PART NUMBER	
		22 L
Hoses	M180-12 (12')	x
	M180-18 (18')	x
Spray Guns	M120 (Standard Gun) (Detail/Small Area Use)	x
	M125 (18" Wand Gun) (Field Area Use)	x
Spray Tip	UniJet® 11002B (4"–16" Build Adjust. Spray)	x
Spray Cleaner	S800-AA (Spray Tip Cleaner	x

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5510 F St, Omaha, NE 68117

DIRECTIONS FOR USE

QDEK® QD-2302 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 3-5 minutes or until just slightly sticky, but not longer than 20 minutes before mating substrates.
- Parts should be mated with as much pressure as practical. Ensure 80-100% coverage with spray pattern.
- Within one to two hours, bond is strong enough to allow cutting or trimming, although ultimate strength is achieved in 1-3 days. Low ambient temperatures extend cure time.
- Canister system will spray adequately above 60º F. Surrounding temperature should be 25º F and rising.
- Canister system will spray adequately above 60º F. Surrounding temperature should be 25º F and rising. 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 in warm water is recommended.
- Notice!!! Do not store at temperatures over 120º F.

CARE OF SPRAY TIP

Because Crosslinking Contact Adhesives will cure in the tip, if it is going to be more than 10 minutes between uses of the gun:

- Using Tensorgrip® S800 Point aerosol and gun away from yourself and wear safety glasses.
- Spray whole tip until tip is clean.
- Hold S800 nozzle directly on or within ½" of the orifice of the tip.
- Spray Tensorgrip® S800 directly into the orifice until it is clear (1-3 seconds).

CANISTER STORAGE/CHANGE OVER

- When hose is connected, keep canister valve open and hose pressurized at all times. To avoid adhesive curing in hose, use within 30 days.
- Do not disconnect the hose until ready to connect to a new canister.
- Release pressure in hose before disconnecting from canister and reconnect immediately. Or if not connecting hose/gun to new canister immediately, connect hose to canister of cleaning solvent to clean out.

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 our adhesives to determine suitability for your particular application prior to use in production.

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SAFETY DATA SHEET
QDek QD2302 PVC Membrane Adhesive Canister

1. Identification

Product identifier

Product name QDek QD2302 PVC Membrane Adhesive Canister

Product number USA, Nov 16 2021

Recommended use of the chemical and restrictions on use

Application Canister Spray Adhesive

Details of the supplier of the safety data sheet

Supplier

QDEK Roofing Adhesive
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 Press. Gas, Compressed - H280 Flam. Liq. 2 - H225

Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H336 STOT RE 2 - H373

Environmental hazards Not Classified

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 Danger

Hazard statements	H302+H332 Harmful if swallowed or if inhaled. H280 Contains gas under pressure; may explode if heated. H225 Highly flammable liquid and vapor. H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H351 Suspected of causing cancer. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 If on skin: Wash with plenty of water. 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. P314 Get medical advice/ attention if you feel unwell. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.
Contains	Methyl Acetate, Methylenediphenyl diisocyanate, Proprietary Propellant Mixture

Other hazards

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

3. Composition/information on ingredients

Mixtures

Methyl Acetate **30-60%**

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

Methylenediphenyl diisocyanate **10-25%**

CAS number: 26447-40-5

Classification
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2A - H319
Resp. Sens. 1 - H334
Skin Sens. 1 - H317
Carc. 2 - H351
STOT SE 3 - H335
STOT RE 2 - H373

Proprietary Propellant Mixture CAS number: —	**5-10%**
Classification Press. Gas, Compressed - H280	

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.

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

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.

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/m³
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	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

Appearance	Aerosol.
Color	Clear
Odor	Characteristic.
Odor threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	55.8°C/132.4°F
Flash point	-13°C/9°F
Evaporation rate	No information available.
Flammability (solid, gas)	Flammable Vapour
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 3.0% Upper flammable/explosive limit: 16%
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	1.08
Solubility(ies)	No information available.
Partition coefficient	No information available.

Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Volatile organic compound	This product contains a maximum VOC content of 0 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). Nitrous gases (NOx).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	1,000.0

Acute toxicity - dermal

ATE dermal (mg/kg)	2,200.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	17.97

Toxicological information on ingredients.

Methyl Acetate

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rat
ATE dermal (mg/kg)	1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	49.28
Species	Rat
ATE inhalation (vapours mg/l)	11.0

Methylenediphenyl diisocyanate

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Harmful if inhaled.
ATE inhalation (vapours mg/l)	11.0

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin.
Animal data	Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Moderate to severe erythema (3). Edema score: Slight oedema - edges of area well defined by definite raising (2).

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye irritation.

Respiratory sensitization

Respiratory sensitization	Sensitizing.

Skin sensitization

Skin sensitization	Guinea pig maximization test (GPMT) - Guinea pig: Sensitizing.

Carcinogenicity

Carcinogenicity	Suspected of causing cancer.

Specific target organ toxicity - single exposure

STOT - single exposure	STOT SE 3 - H335 May cause respiratory irritation.
Target organs	Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

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	Cargo aircraft only. <75kg

UN Number

UN No. (IMDG)	3501
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)

Proper shipping name (IMDG) Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate)

Proper shipping name (ICAO) Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate)

Proper shipping name (DOT) Chemical Under Pressure, Flammable, N.O.S. (Methyl Acetate)

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 (311/312) Hazard Categories

Present.

Methyl Acetate

Fire
Acute
Chronic
Health hazard

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Present.

Methylenediphenyl diisocyanate

Massachusetts "Right To Know" List

Methyl Acetate
Present

New Jersey "Right To Know" List

Methyl Acetate
Present.

Pennsylvania "Right To Know" List

Methyl Acetate
Present.

Inventories

Canada - DSL/NDSL

Methyl Acetate
Present.

US - TSCA

Methyl Acetate
Present.

16. Other information

Revision date	2/18/2020
Revision	7
Supersedes date	12/28/2018
SDS No.	22417
Hazard statements in full	H225 Highly flammable liquid and vapor. H280 Contains gas under pressure; may explode if heated. H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure.
NFPA - health hazard	Irritation, minor residual injury. (1)
NFPA - flammability hazard	Ignites easily. (3)
NFPA - instability hazard	Unstable if heated. (1)
ACA HMIS Health rating.	Moderate hazard. (2)
ACA HMIS Flammability rating.	Extremely flammable. (4)
ACA HMIS Physical hazard rating.	Normally stable. (0)
ACA HMIS Personal protection rating.	B

DIRECTIONS FOR USE

PRODUCT LOGO