

QDEK[®]

roofing adhesive



QD3000

POLYURETHANE BEAD ADHESIVE

QDEK® QD3000 is a single component low rise polyurethane foam system designed for adhering conventional roofing materials. Used for bonding insulation board in bead pattern application method pattern. Can be used with Metal Deck, DensDeck®, SPF, Structural or Lightweight Concrete, Smooth or granulated Mod-Bit, Smooth or Gravel BUR, Mineral Cap sheets, Fiberboard, Rigid Insulation Board, Sheetrock type Gypsum Boards, Wood Fiber, Wood and Painted or Galvanized Steel.

ADVANTAGES

- Extreme Heat Resistance
- Single Component for Ease of Use
- Extreme High Coverage
- Low VOC California Compliant
- Versatile Adhesive that bonds to nearly any surface
- Fully Portable System
- Repositionable During Open Time

CHEMICAL TECHNICAL DATA

TYPICAL PROPERTIES	
Total Solids	100%
VOC Content	0 g/L
Color	White
System Flammability	Flammable
Solvent System	Polymeric MDI
Open time	5 minutes dependent on temp & humidity
Handling Strength Time	15 minutes dependent on temp & humidity
Full Cure Time	24 hours dependent on temp & humidity
Shelf Life	18 months from date of manufacture
Coverage	4,800 linear feet with 1" bead / 48 squares 12" on center

PACKAGING	
22L	Disposable Canister

APPLICATION TOOLS

TOOL	PART NUMBER	22 L
Hoses	M130-12 (12')	x
	M130-18 (18')	x
Spray Guns	M160-8 (8' Wand Gun)	x
	M160-450 (18" Wand Gun)	x

DIRECTIONS FOR USE

QDEK® QD3000 is designed as a portable, self-contained system for field or shop applications.

- Shake or agitate gently before using.
- Adhesive should be applied in a thin bead to one of the surfaces to be bonded.
- Bonds should be made within 5 minutes of application. Be sure to apply adequate pressure to ensure maximum bonding!
- Bonded surfaces will begin to cure in approximately 15 minutes, depending on temperature and humidity. Full cure is reached after 24 hours.
- Clean excess adhesive immediately with solution such as citrus cleaner.
- Canister system will work sufficiently above 60° F. Surrounding temperature should be 25° F and rising.
- Canister system should be kept in a warm area. In the event that the canister gets too cold and/or dispenses abnormally slow, warm up before continuing usage. Warming canister in warm water is recommended.
- Notice!!! Do not store at temperatures over 120° F.

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.

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.



SAFETY DATA SHEET

QDEK QD3000 Polyurethane Foam Adhesive Canister

1. Identification

Product identifier

Product name QDEK QD3000 Polyurethane Foam Adhesive Canister

Product number USA, 11/12/21

Recommended use of the chemical and restrictions on use

Application Pressurized Polyurethane Foam 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 Flam. Aerosol 1 - H222 Press. Gas, Compressed - H280

Health hazards Acute Tox. 4 - H302 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

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

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Hazard statements	<p>H222 Extremely flammable aerosol.</p> <p>H280 Contains gas under pressure; may explode if heated.</p> <p>H302 Harmful if swallowed.</p> <p>H315 Causes skin irritation.</p> <p>H319 Causes serious eye irritation.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H351 Suspected of causing cancer.</p> <p>H335 May cause respiratory irritation.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
Precautionary statements	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P342+P311 If experiencing respiratory symptoms: Call a poison center/ doctor.</p> <p>P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F.</p>
Supplemental label information	AT(o) 16.36% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
Contains	Polymeric MDI, 1,1, Difluoroethane (152a), Monomeric MDI, 2,2'-dimorpholinyl-diethyl ether (6425-39-4)

Other hazards

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

3. Composition/information on ingredients

Mixtures

Polymeric MDI	10-25%
CAS number: 9016-87-9	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1A - H317	
STOT SE 3 - H335	
1,1, Difluoroethane (152a)	10-25%
CAS number: 75-37-6	
Classification	
Flam. Aerosol 1 - H222	
Press. Gas, Compressed - H280	
Acute Tox. 4 - H332	
Simple Asphyxiant - USH03	

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Monomeric MDI	10-25%
CAS number: 101-68-8	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
Carc. 2 - H351	
STOT SE 3 - H335	
STOT RE 2 - H373	
2,2'-dimorpholinyl-diethyl ether (6425-39-4)	1-5%
CAS number: 6425-39-4	
Classification	
Eye Irrit. 2 - H319	

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.

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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

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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

1,1, Difluoroethane (152a)

Long-term exposure limit (8-hour TWA): WEEL:US.AIHA = Workplace Environmental Exposure Level Guides 2700 mg/m³
1000 ppm

Monomeric MDI

Long-term exposure limit (8-hour TWA): ACGIH 0.005 ppm

Ceiling exposure limit: OSHA 0.02 ppm 0.2 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

Polymeric MDI (CAS: 9016-87-9)

Ingredient comments No exposure limits known for ingredient(s).

2,2'-dimorpholinyl-diethyl ether (6425-39-4) (CAS: 6425-39-4)

Ingredient comments No exposure limits known for ingredient(s).

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

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Information on basic physical and chemical properties

Appearance	Aerosol.
Color	Natural.
Odor	Characteristic.
Odor threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	-25°C (-13°F)
Flash point	> -50°C/-58°F
Evaporation rate	No information available.
Flammability (solid, gas)	Flammable Vapour
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 3.9 % Upper flammable/explosive limit: 16.9 %
Vapor pressure	No information available.
Vapor density	No information available.
Relative density	1.085
Bulk density	Data lacking.
Solubility(ies)	Insoluble in water.
Partition coefficient	Data lacking.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	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 (CO ₂). Hydrogen chloride (HCl). Nitrous gases (NO _x).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,325.94

Acute toxicity - inhalation

ATE inhalation (gases ppm) 27,506.11

ATE inhalation (vapours mg/l) 34.88

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Toxicological information on ingredients.

Polymeric MDI

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 0.49

Species Rat

ATE inhalation (vapours mg/l) 11.0

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Aspiration hazard

Aspiration hazard No data available.

1,1, Difluoroethane (152a)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,500.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV) 383,000.0

Species Rat

ATE inhalation (gases ppm) 4,500.0

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

Monomeric MDI

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 9,200.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

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Acute toxicity inhalation (LC₅₀ vapours mg/l) 2.24

Species Rat

ATE inhalation (vapours mg/l) 11.0

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Respiratory sensitization

Respiratory sensitization May cause sensitisation.

Skin sensitization

Skin sensitization May cause sensitisation.

Carcinogenicity

Carcinogenicity Data lacking.

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Inhalation - May cause damage to organs through prolonged or repeated exposure

Aspiration hazard

Aspiration hazard No data available.

2,2'-dimorpholinyl-diethyl ether (6425-39-4)

Toxicological effects No data recorded.

Carcinogenicity

Carcinogenicity No information available.

Aspiration hazard

Aspiration hazard No data available.

12. Ecological information

Bioaccumulative potential

Partition coefficient Data lacking.

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

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UN No. (ICAO) 3501

UN No. (DOT) 3501

UN proper shipping name

Proper shipping name (TDG) Chemical Under Pressure, Flammable, N.O.S. (1,1, Difluoroethane (152a))

Proper shipping name (DOT) Chemical Under Pressure, Flammable, N.O.S. (1,1, Difluoroethane (152a))

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

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed or exempt:

Monomeric MDI

Final CERCLA RQ: 5000(2270) pounds (Kilograms)

SARA (311/312) Hazard Categories

Polymeric MDI

Acute
Health hazard

1,1, Difluoroethane (152a)

Fire
Pressure
Hazard
Acute
Health hazard

Monomeric MDI

Chronic
Health hazard
Acute
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.

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California Directors List of Hazardous Substances

The following ingredients are listed or exempt:

Monomeric MDI

Present.

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

1,1, Difluoroethane (152a)

Present

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Polymeric MDI

Present.

1,1, Difluoroethane (152a)

Present.

Monomeric MDI

Present.

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Polymeric MDI

Present.

1,1, Difluoroethane (152a)

Present.

Inventories

US - TSCA

The following ingredients are listed or exempt:

Monomeric MDI

Present.

2,2'-dimorpholinyl diethyl ether (6425-39-4)

Present.

16. Other information

Revision date	2/1/2019
Revision	8
Supersedes date	11/30/2017
SDS No.	22160

QDEK QD3000 Polyurethane Foam Adhesive Canister

Hazard statements in full

H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H302 Harmful if swallowed.
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.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
USH03 May displace oxygen and cause rapid suffocation

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. B

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.