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## Source Report: Adhesives

### Healthbond 1000

Healthbond 1000 is a high strength, fast setting adhesive designed for use with most carpet backings and for the installation of broadloom carpet. This adhesive is a water-based premium adhesive with “zero” calculated VOCs (volatile organic compounds based on no solvents used). Healthbond 1000 is a low-odor adhesive and is CRI Green Label Plus approved.

#### TECHNICAL DATA & WARRANTY

Healthbond 1000 is part of the Healthbond family of adhesives. This multi-purpose adhesive is ideal for areas where odor is a concern. Healthbond 1000 is available in 4-gallon pails.

Please read all warnings and follow all directions on the product container.

#### Suitable Substrates

Yield for a proper bond to most concrete subfloors should be about 12-14 square yards per gallon or about 50 square yards per pail.

Healthbond 1000 should be spread with a 1/8x1/8x1/8 V-notched trowel or larger, such as a 5/32 V-notch.

#### Sub-floor Preparation

All subfloors must be free of dust, wax paint, greases, oil, loose dirt, and/or contaminants. Floors must be tested for high pH and moisture prior to installation. For moisture use calcium chloride test ASTM F1869 or ASTM F2170 relative humidity test. Dusty or chalky floors should be filled with a high quality underlayment compound. For more specific information on subfloor preparation, refer to CRI-104 and CRI-105, or to the specific product installation instructions.

#### Conditioning

The colder the adhesive and substrates, the longer the adhesive set up time. Condition the installation site, all flooring materials, and the adhesive to a minimum temperature of 65°F for 24 hours prior to installation.

#### Open Time

10 to 20 minutes, depending on temperature and humidity. Do not allow adhesive to skin over. Be sure to achieve 100% transfer to carpet backing.

#### Intersept® Antimicrobial

Permanently incorporated into the adhesive and protects the product against the growth of a broad spectrum of molds, mildews, bacteria and odor causing microorganisms.

## Source Report: Adhesives

### Healthbond 1000 - Material Safety Data Sheet

**Manufactured for:**

Bentley Prince Street  
14641 East Don Julian Road  
City of Industry, California 91746  
800.423.4709

**24-hour Emergency:**

Chemtrec: 800.424.9300

**HMIS:**

Health: 1  
Reactivity: 0  
Flammability: 0  
Pers. Prot. Equip.: B

**Product Identification:**

Product No.: 1000  
Product Class: Latex Adhesive  
Product Name: Healthbond 1000  
Trade Name: Healthbond

**Hazardous Ingredients:**

None

**Physical Data:**

Boiling Point: 212°F  
Vapor Density: Same as water.  
Evap. Rate: Same as water.  
Appearance: Viscous Latex, emulsion,  
mild odor  
Specific Gravity: 1.05  
Solubility: Dispersible  
V.O.C.: "0" grams/liter

**Fire and Explosion Hazard Data:**

Flammable Limits: No flashing  
Flash Point: 212°F

**Flammability Classification:**

OSHA: None  
DOT: None

**Extinguishing Media:**

CO<sub>2</sub>, chemical fog, water fog

**Special Firefighting Features:**

Wear self contained breathing gear when in confined area.

**Health Hazard Data:**

Threshold limit value: None  
Effects of Overexposure: None

**Emergency/First Aid Procedure:**

Keep out of eyes. Flush with water for 10-15 minutes. If irritation persists, consult a physician. May cause a slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician.

**Reactivity Data:**

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.

**Hazardous Decomposition Prods.:**

Normal (CO<sub>2</sub>, CO)

**Hazardous polymerization:**

Will not occur.

**Spill or Leak Procedures:**

Ventilation: Local Ventilation  
Prot. Gloves: Recommended  
Eye Protection: Recommended  
Hygiene Practices: Wash with soap and water after exposure.  
Respiratory Protection: self-contained breathing gear in confined area.  
Other Prot. Equipment: None

**Special Precautions/Other:**

Precautions to be taken in handling and storing: Store inside at a temperature of 60°F to 100°F. Do not allow product to freeze.  
Other precautions: None

**Transportation Data:**

D.O.T. Hazard Class: Unregulated

## Source Report: Adhesives

### Healthbond 1500 Ultra Green Plus

Healthbond 1500 Ultra Green Plus is a premium, fast grabbing, ultra-high solids, heavy commercial carpet adhesive for hard to hold direct glue applications. Healthbond 1500 Ultra Green Plus commercial carpet adhesive meets the CRI Green Label Plus requirements for low emitting materials, contains 20% post-consumer recycled content, is packaged in a 75% post industrial resin (recycled) pail and passes California SCAQMD Rule #1168 low VOC criteria. Healthbond 1500 Ultra Green Plus qualifies for, or contributes to, 1 LEED Point, under Adhesives and Sealants, LEED Credit 4.1 EQ.

#### TECHNICAL DATA & WARRANTY

**Do Not Use** Healthbond 1500 Ultra Green Plus with vinyl backed material.

Please read all warnings and follow all directions on the product container.

#### Suitable Substrates

Properly prepared concrete, recommended wood floors, non-cushioned inlaid sheet flooring, vinyl composition tile, asphalt tile, terrazzo, and marble.

#### Sub-floor Preparation

All subfloors must be free of dust, wax paint, greases, oil, loose dirt, and/or contaminants. Floors must be tested for high pH and moisture prior to installation. For moisture use calcium chloride test ASTM F1869 or ASTM F2170 relative humidity test. Dusty or chalky floors should be filled with a high quality underlayment compound. For more specific information on subfloor preparation, refer to CRI-104 and CRI-105, or to the specific product installation instructions.

#### Conditioning

The colder the adhesive and substrates, the longer the adhesive set up time. Condition the installation site, all flooring materials, and the adhesive to a minimum temperature of 65°F for 24 hours prior to installation.

#### Open Time

10 to 20 minutes, depending on temperature and humidity. Do not allow adhesive to skin over. Be sure to achieve 100% transfer to carpet backing.

#### Application and Coverage

Recommended Trowel	Coverage SQ. YD.	Flooring Type
 1/8" x 1/8" x 1/16"	per pail 10-12	Most Commercial Backings

#### Intersept® Antimicrobial

Permanently incorporated into the adhesive and protects the product against the growth of a broad spectrum of molds, mildews, bacteria and odor causing microorganisms.

## Source Report: Adhesives

### Healthbond 1500 Ultra Green Plus - Material Safety Data Sheet

**Manufactured for:**

Bentley Prince Street  
14641 East Don Julian Road  
City of Industry, California 91746  
800.423.4709

**24-hour Emergency:**

Chemtrec: 800.424.9300

**HMIS:**

Health: 1  
Reactivity: 0  
Flammability: 0  
Pers. Prot. Equip.: B

**Product Identification:**

Product No.: 1500  
Product Class: Latex Adhesive  
Product Name: Healthbond Ultra Green Plus  
Trade Name: Healthbond

**Hazardous Ingredients:**

None

**Physical Data:**

Boiling Point: 212°F  
Vapor Density: Same as water  
Evap. Rate: Same as water  
Appearance: Tan paste, latex  
Specific Gravity: 1.16  
Solubility: Dispersible  
V.O.C.: "0" grams/liter

**Fire and Explosion Hazard Data:**

Flammable Limits: No flashing  
Flash Point: N.D.

**Flammability Classification:**

OSHA: None  
DOT: None

**Extinguishing Media:**

CO<sub>2</sub>, chemical fog, water fog

**Special Firefighting Features:**

Wear self contained breathing gear when in confined area.

**Health Hazard Data:**

Threshold limit value: None  
Effects of Overexposure: None

**Emergency/First Aid Procedure:**

Keep out of eyes. Flush with water for 10-15 minutes. If irritation persists, consult a physician. May cause a slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician.

**Reactivity Data:**

Conditions to avoid: Excessive heat or cold.  
Stability: Stable  
Incompatibility: None known

**Hazardous Decomposition Prods.:**

Normal (CO<sub>2</sub>, CO)

**Hazardous polymerization:**

Will not occur

**Spill or Leak Procedures:**

Ventilation: Local Ventilation  
Prot. Gloves: Recommended  
Eye Protection: Recommended  
Hygiene Practices: Wash with soap and water after exposure  
Respiratory Protection: Not required  
Other Prot. Equipment: None

**Special Precautions/Other:**

Precautions to be taken in handling and storing: Store inside at a temperature of 60°F to 100°F. Do not allow product to freeze.  
Other precautions: None

**Transportation Data:**

D.O.T. Hazard Class: Unregulated

## Source Report: Adhesives

### NexStep 2300 Ultra Green Plus Tile Adhesive

NexStep 2300 Ultra Green Plus is an aggressive, high solids, releasable pressure sensitive adhesive. It is packaged in a 75% post industrial resin (recycled) pail, meets the CRI Green Label Plus requirements for low emitting materials and passes California SCAQMD Rule #1168 low VOC criteria. NexStep 2300 Ultra Green Plus qualifies for, or contributes to, 1 LEED Point, under Adhesives and Sealants, LEED Credit 4.1 EQ.

NexStep 2300 Ultra Green Plus is specially engineered for installations of Bentley Prince Street's NexStep Cushion backed tiles and roll goods where grid or total glue down installation is recommended. This premium adhesive is formulated to facilitate release and re-bonding of carpet tiles while permanently retaining its tack, allowing individual tiles to be lifted out and replaced without substantial loss of adhesive properties – for the life of the installation.

#### TECHNICAL DATA

Please read all warnings and follow all directions on the product container.

#### Suitable Substrates

Properly prepared concrete, recommended wood floors, metal, terrazzo, ceramic marble slate, and resilient floor coverings.

#### Sub-floor Preparation

Sub-floor should be carefully inspected to assure that proper bonding of the carpet to the floor can be achieved. Proper adhesion requires that the surface be clean, dry, and free from dust paint, old floor finishes, or any foreign material.

#### Conditioning

It is important that all materials to be used in the installation be preconditioned at a temperature between 65°F and 95°F and with relative humidity readings between 10% and 65%.

#### Application and Coverage

For tile installations, use a 6" or 8" paint roller (approximate coverage is 360-405 ft<sup>2</sup>/gallon) and apply in a full spread fashion, taking care to coat all surfaces. Coverage will vary according to the sub-floor type and application method.

Once spread, allow adhesive to dry for 45-60 minutes or until surface becomes tacky to touch. As drying takes place, the adhesive will become transparent. Drying speed will vary according to temperature and porosity of the sub-floor, temperature of the air and components, relative humidity as well as dryness of the floor and thickness of the application. If the carpet tiles are installed with the adhesive in the wet state, or before sufficient drying has occurred, important release and re-bonding properties will be affected. Carpet tiles may be installed at any time after spread adhesive becomes tacky.

#### Intersept® Antimicrobial

Permanently incorporated into the adhesive and protects the product against the growth of a broad spectrum of molds, mildews, bacteria and odor causing microorganisms.

## Source Report: Adhesives

### NexStep 2300 – Material Safety Data Sheet

#### Manufactured for:

Bentley Prince Street  
14641 East Don Julian Road  
City of Industry, California 91746  
800.423.4709

#### 24-hour Emergency:

Chemtrec: 800.424.9300

#### HMIS:

Health: 1  
Reactivity: 0  
Flammability: 0  
Pers. Prot. Equip.: B

#### Product Identification:

Product Class: Acrylic Adhesive  
Product Name: Pressure Sensitive Adhesive  
Trade Name and Number:  
Healthbond 2300

#### Hazardous Ingredients:

None

#### Physical Data:

Boiling Point: 212°F  
Vapor Density: Same as water  
Evaporation Rate: Same as water  
Appearance: Gray viscous liquid, mild odor  
Specific Gravity: 1.05  
Percent Volatile by Volume:  
40%(water)  
Solubility in Water: Dispersible  
VOC (calculated): "0"grams/liter

#### Fire and Explosion Hazard Data:

Flammable Limits: No Flashing  
Flash Point: >212°F  
Flammability Classification:  
OSHA:None, DOT: None  
Extinguishing Media:CO2, Chemical Foam,  
water fog.  
Special Fire Fighting Features:  
Wear self contained  
breathing gear when in  
confined area. Wear  
protective clothing.

#### Health Hazard Date:

Threshold Limit Value:  
None  
Effects of Overexposure:  
None

#### Emergency & First Aid Procedures:

Keep out of eyes. Flush with water for 10-15 minutes. If irritation persists, consult a physician. May cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. In case of over-exposure, move to fresh air. If breathing is difficult, give oxygen and get medical attention.

#### Reactivity Data:

Conditions to avoid: Excessive heat or cold.  
Stability: Stable.  
Incompatibility: None known.  
Hazardous Decomposition Products:  
Normal (CO<sub>2</sub>, CO)

#### Hazardous Polymerization:

Will not occur

#### Spill or Leak Procedures:

Ventilation: Local ventilation.  
Protective Gloves: Recommended  
Eye Protection: Recommended  
Hygienic Practices: Wash with soap and water after exposure.

#### Respiratory Protection:

Not required.  
Other Protective Equipment:  
Wear self contained  
breathing gear when in  
confined area.  
Special Precautions/Other Comments:  
Precautions to be taken in handling  
and storing:: Store inside at a  
temperature of 60°F to  
100°F or higher. Do not  
allow product to freeze.  
Other Precautions: None

#### Transportation Data:

DOT Hazard Class: Unregulated

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## Source Report: Adhesives

### Healthbond 3000 Seam Sealer

Healthbond 3000 Seam Sealer has superior wet tack and rapid speed of set, making it an ideal candidate for solvent based adhesive replacement. Use it on all carpets, including vinyl backed types, for seaming and to prevent raveling on cut edges. This product is based on high strength, water based polymer designed specifically for use with Bentley Prince Street broadloom carpets.

#### TECHNICAL DATA & WARRANTY

Seam Sealer 3000 does not contain ammonia, is non-flammable, and dries to a clear film that is alkali and water resistant. Seam Sealer 3000 has low odor and “zero” calculated VOCs (volatile organic compounds based on no solvents used) which makes it ideal for use in school, public buildings, and other areas where odor is a concern. Seam Sealer 3000 is not photo chemically reactive as defined by California Rule 102, and is especially valuable for specification work.

Please read all warnings and follow all directions on the product container.

#### Suitable Substrates

Use it on all carpets, including vinyl backed types, for seaming and to prevent raveling on cut edges.

#### Application and Coverage

Apply a continuous 1/8 inch bead of adhesive to the edge of the backing of the first piece of carpet where it meets the carpet pile. Immediately place the edge of the second piece of carpet into contact with the first piece of carpet, which has the seam sealer on it. To achieve a good bond, it is essential for the two pieces of carpet to have a tight fit, and traffic on the seamed area should be restricted for at least 24 hours. Clean any smears of adhesive with water while material is in the wet state. However, dried or “tacky” adhesives will require the use of an adhesive remover such as Bentley Prince Street Healthbond Cleaner 400.

#### Storage and Handling

Containers: (one quart applicators) should be kept tightly closed when not in use. Protect from freezing.

#### Intersept® Antimicrobial

Permanently incorporated into the adhesive and protects the product against the growth of a broad spectrum of molds, mildews, bacteria and odor causing microorganisms.

## Source Report: Adhesives

### Healthbond 3000 Seam Sealer – Material Safety Data Sheet

**Manufactured for:**

Bentley Prince Street  
14641 East Don Julian Road  
City of Industry, California 91746  
800.423.4709

**24-hour Emergency:**

Chemtrec: 800.424.9300

NFPA Rating: H=1, F=1, R=0

**Identity:**

Seam Sealer 3000  
Product Code: SS-3000  
Supplier: Re:Source Technologies  
Supplier Address: 237 Nance Road NE,  
Calhoun, Georgia 30701  
CAS Number: Proprietary mixture  
WHMIS Classification:  
Not controlled  
Chemical Name: Vinyl acetate – ethylene  
copolymer emulsion  
Molecular Weight: Not applicable – mixture  
Chemical Family: Latex adhesive  
\*all components of this product appear on the  
Inventory of Chemical Substances published by  
the US Environmental Protection Agency (EPA)  
under the authority of the Toxic Substances  
Control Act (TSCA).

**Hazardous Ingredients Information:**

Reportable Components:

None

“No toxic chemical(s) subject to the reporting  
requirements of Section 313 of Title III and of  
40 CFR are present.”

State Regulations: California Proposition 65  
This product does not  
contain components listed  
under the California Safe  
Drinking Water and  
Toxic Enforcement Act of  
1986 (Proposition 65).

**Physical and Chemical Characteristics:**

Boiling Point: 212°F  
Specific Gravity: 1.04  
Vapor Pressure: Same as water  
Percent Volatile by Volume:  
28-30% (water)  
Vapor Density (Air=1):  
Same as water  
Evaporation Rate (Water = 1):  
Same as water  
Solubility in Water: Insoluble  
Appearance and Odor:  
Viscous latex emulsion, mild  
characteristic odor.

**Fire and Explosion Hazard Data:**

Flash Point: >212°F  
Method Used: ASTM D-93  
Flammable Limits in Air (% by Volume):  
Lower: Non-Flammable  
Upper: Non-Flammable  
Extinguishing Media: Water, dry chemical, CO2  
Auto-Ignition Temperature:  
Not determined  
Unusual Fire and Explosion Hazards:  
None known. Product is  
non-flammable in aqueous  
form. Dry product only will  
burn.

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## Source Report: Adhesives

### Healthbond 4200 Seam Cleaner

Healthbond 4200 Seam Cleaner is a non-alkaline, non-flammable clear liquid surfactant solution that will aid the lifting of latex, acrylic and pressure sensitive adhesives from flooring surfaces. It also aids in the removal of chewing gum. Healthbond 4200 Seam Cleaner works by penetrating and emulsifying the adhesive at the contact surface to loosen the bond. For best results, use at room temperature, carefully read and follow instructions for use. Always test a small area before using.

#### TECHNICAL DATA & WARRANTY

Healthbond 4200 Seam Cleaner is an aqueous formulation of penetrating and emulsifying agents. It does not “dissolve” or “freeze” adhesives or chewing gum. It works through a surfactant action on the tacky bond between fabric and polymer. The adhesive or gum loses its adhesion to the fabric and is removed in portions. Healthbond 4200 Seam Cleaner is formulated to be low-odor, nonflammable, and biodegradable. It does not contain hazardous solvents and is completely water-soluble.

Please read all warnings and follow all directions on the product container.

#### Suitable Substrates

Not suggested for use for removal of asphalt or solvent-based adhesives.

#### Application and Coverage

General directions for use as a spot remover for dry adhesive or chewing gum on carpet:

1. Pick or peel away or otherwise remove as much of the dry adhesive or gum as possible. On carpet or upholstery, avoid grinding the gum or adhesive further into the fibers.
2. Spray 4200 Seam Cleaner directly onto the spot of adhesive or gum and wet thoroughly. Allow to soak for 5 minutes, then spray again.
3. Test the spot with a plastic or wood scraper; again try to scrape the adhesive off the carpet without grinding it into the fibers. Chewing gum will “pill” or “ball up” due to the effect of the cleaner. Sweep away these residues and continue finer cleaning with a cloth and/or soft brush. Avoid too much scraping or hard brushing as this will fray or damage the fibers.
4. After the adhesive or gum is removed, rinse the spot with clean water, and blot dry with a clean towel.

#### Storage and Handling

Store Healthbond 4200 Seam Cleaner in a cool, dry area away from heat sources. Do not allow to freeze.

#### Shelf Life

This product has a shelf life of one year.

## Source Report: Adhesives

### Healthbond 4200 Seam Cleaner – Material Safety Data Sheet

#### Manufactured for:

Bentley Prince Street  
14641 East Don Julian Road  
City of Industry, California 91746  
800.423.4709

#### 24-hour Emergency:

Chemtrec: 800.424.9300

NFPA Rating: H=1, F=1, R=0

#### Identity:

Product Name: Cleaner 4200  
Supplier: Re:Source Technologies  
Supplier Address: 237 Nance Road NE,  
Calhoun, Georgia 30701  
CAS Number: Proprietary mixture  
WHMIS Classification:

Not controlled  
Chemical Name: Proprietary mixture  
Molecular Weight: Not applicable – mixture  
Chemical Family: Aqueous cleaning  
compound

\*all components of this product appear on the Inventory of Chemical Substances published by the US Environmental Protection Agency (EPA) under the authority of the Toxic Substances Control Act (TSCA).

#### Composition and Ingredient Information:

Water	CAS Number: 773-18-5 Percent: 80-90 TLV Value: Not Established
Glycol ether DPM	CAS Number: 34590-94-8 Percent: 10 TLV Value: Not Established
EDTA, sodium salt	CAS Number: 64-02-8 Percent: .05-.1 TLV Value: Not Established
Nonylphenol ethoxylate	CAS Number: 9015-45-9 Percent: 1-2 TLV Value: Not Established

“no toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR are present.”

#### Physical and Chemical Characteristics:

Boiling Point:	212°F
Specific Gravity:	1.00
Vapor Pressure:	Same as water
Percent Volatile by Volume:	99%
Vapor Density (air=1):	Same as water
Evap. Rate (water=1):	Same as water
Solubility in Water:	Soluble
Appearance and Odor:	Clear liquid, little odor
Other:	pH9.0-9.0), VOC Content:100 grams/liter

#### Fire and Explosion Hazard Data:

Flash Point:	>212°F
Method Used:	ASTM D-93
<b>Flammable Limits in Air (% by volume):</b>	
Lower:	Non-flammable
Upper:	Non-flammable
Extinguishing Media:	Water, dry chemical, CO2
Auto-Ignition Temperature:	Not determined
Unusual Fire and Explosion Hazards:	None known

#### Physical Hazards:

Stability:	Stable
Incompatible Materials	None known
Hazardous Decomposition Products:	None known
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	None known

#### Health Hazards:

Threshold Limit Value:	Not determined
<b>Acute Overexposure:</b>	
Eye contact:	Avoid eye contact. Can cause eye irritation
Inhalation:	No effects are expected.
Skin contact:	Prolonged contact can cause skin irritation.
Swallowing:	Swallowing may cause stomach and intestinal irritation.

## Source Report: Adhesives

### Healthbond 4200 Seam Cleaner – Material Safety Data Sheet

#### Health Hazards (cont.)

Chronic Overexposure: None known  
 Medical Conditions Aggravated by Exposure: None known  
 Toxicity: No data available  
 Listed as Carcinogen or Potential Carcinogen by:  
 -NTP: No  
 I.A.R.C: No  
 OSHA: No  
 Emergency First Aid Contacts:  
 Inhalation: In case of overexposure move victim to fresh air. If breathing difficult, give oxygen. Get medical attention.  
 Eye Contact: In case of eye contact flush eyes with water for at least 15 minutes. Seek medical attention if irritation persists.  
 Skin Contact: In case of contact wash skin with soap and water.  
 Ingestion: If swallowed do not induce vomiting. Get medical attention immediately.

#### Precautions for Safe Handling and Use

Precautions to be taken in handling and storage:  
 Store at 40-110°F as recommendation.  
 Provide adequate ventilation in the workplace.  
 Steps to be taken if material is released or spilled:  
 Cover small spills using inert absorbent, then sweep up and place in a waste disposal container.  
 Waste disposal methods:  
 Dispose of in accordance with Federal RCRA and applicable State and Local regulations.

#### Special Precautions and Spill/Leak Protection:

Respiratory Protection: None required with adequate ventilation.  
 Ventilation: General mechanical.  
 Gloves: Impervious. Neoprene rubber recommended.  
 Eye Protection: Safety glasses or splashproof goggles.  
 Other: Keep containers closed and properly stored. Maintain an eyewash facility in the work area.  
 Transportation: D.O.T. Emergency Guide No.: Not regulated.