



**SHOWER PAN INSTALLATION PACKET
(INCLUDES MSDS SHEETS)**

P.O. BOX 258

GLIDE, OREGON 97443-0258

GRIFform INNOVATIONS®

SHOWER PAN 1 YEAR LIMITED WARRANTY

GRIFform Innovations® warrants to the original purchaser of this product for 1 year from defects in material, workmanship and manufacture from the date the shipment arrives.

If the original purchaser discovers such a defect, the original purchaser must return the shower pan to **GRIFform Innovations®** at the purchaser's expense.

If **GRIFform Innovations®** agrees that the material or workmanship of the shower pan's manufacture was defective, **GRIFform Innovations®** will repair or replace the shower pan, at it's option, and ship the repaired or new shower pan to the purchaser at the expense of **GRIFform Innovations®**.

Repair or replacement is the sole remedy provided by this warranty, and there are no warranties that extend beyond the description on the face hereof.

GRIFform Innovations®

EXPRESSLY DISCLAIMS ANY IMPLIED

WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF

FITNESS FOR A PARTICULAR PURPOSE.



GRIFform INNOVATIONS® POLICIES

CUSTOM PRODUCTS Policy

GRIFform® has been recognized as a leader in difficult Solid Surface thermal forming processes and will provide all of its available technologies to the effort of producing custom solid surface products within the below listed agreement.

GRIFform INNOVATIONS® will produce custom products with the prior understanding that conditions within the materials are not within our controls varying amounts of white-out (discoloration) are always possible.

GRIFform INNOVATIONS® does not give assurance that dye lots will match other sheet good products and/or that the process might not change these characteristics.

Custom molds and fabrication are not subject to refund for any reason. The molds remain property of GRIFform INNOVATIONS® and at no time are customers allowed to view fixtures, molds, or processes used to produce these custom parts.

ORDER Policy

All Purchase Orders need to be made with attention to specified lead times necessary to produce the specified product. All Rush Orders are subject to additional 35% charge per item if outside the prescribed lead times. If a Rush Order status is prescribed and delivery on regular schedule is not acceptable any deviation from the normal schedule will be at additional packaging and shipping charge to the customer, as applicable.

RECEIVING/ACCEPTANCE Policy

If the product is as ordered, but the order has been incorrectly placed it shall be the full responsibility of the purchasing agency to accept and make payment on the item as per purchase order agreement. The replacement of the item will be handled as a new purchase order with the established lead times and regular delivery schedule for that particular product.

When your GRIFform® product leaves our facility, it has been inspected and approved to meet specification.

Each product is to be inspected by the party who receives the order and notice given within 72 hours of receipt if the product is incorrect or unacceptable.

COMMON CARRIER SHIPPING Policy

On rare occasion if the product is shipped by third party shipper, i.e. common carrier, some product may be damaged during shipping, when the truck line delivers your product, **BEFORE YOU SIGN FOR IT**, open the crate and check the product for damage in the presence of the driver. If your product has been damaged, refuse delivery and have the driver mark on the "Bill of Lading" refused because of damage.

If the driver refuses to wait while you check your product and the crate looks like it might have been damaged, have him note on the delivery form that the crate shows damage and possible concealed damage to the contents. This protects you from return freight charges being paid by you. If there is damage, notify the truck line or airlines **IMMEDIATELY** and request that they return to perform an inspection.

IF YOU DO NOT FOLLOW THE ABOVE PROCEDURES, IT MAY BE DIFFICULT TO PROCESS A CLAIM AGAINST THE CARRIER AND RECEIVE ANY REIMBURSEMENT. GRIFform INNOVATIONS® WILL NOT BE RESPONSIBLE FOR ANY DAMAGE.

RETURN Policy

If the receiver discovers a manufacturer defect due to material or workmanship, notification needs to be made within 72 hours of receipt and the process for return shall be as follows:

The original purchaser must convey the product to GRIFform® at the purchasers' expense. The product is to be returned fully and properly packed in original packaging to insure no damage is incurred to the product. After inspection is made and determined that the part has not been manufactured according to GRIFform INNOVATIONS® standard we will replace or repair the part at our discretion.

Because all parts GRIFform INNOVATIONS® produces for the purchasing agency are built to order, repair or replacement orders may require additional time to process. A Return Authorization Number is required to process a return. This number can be acquired by written notice from the purchasing agency. In the written notice we require the purchasing agency's PO Number, Part Number, item description, date received, and the noted defect. For a return credit to be considered the product will be returned fully and properly packed in its original packaging so as to ensure no damage is done to the product.

WARRANTY Policy

GRIFform INNOVATIONS® warrants to the original purchaser that the product shall be free from defects in material, workmanship and manufacture for twelve months from the date shipment arrives. The original purchaser must convey the product to GRIFform® at the purchasers' expense. If GRIFform® agrees that the material or workmanship of the product manufacture was defective; GRIFform® will repair or replace the product, at its option, and convey the repaired or new product to the purchaser at the expense of GRIFform Innovations®.

Repair or replacement is the sole remedy provided by this warranty, and there are no warranties that extend beyond the description on the face hereof.

GRIFform INNOVATIONS® EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Griform Innovations[®], Inc.

Care and Maintenance

The inherent qualities of Corian[®] solid surfaces ensure the ultimate in easy care and renewability. Its nonporous, solid composition makes it easy to live and work with for many years.

- Routine Care
- Preventing Heat and Other Damage
- Removing Stains and Fixing Scratches or Burns

Routine Care

Routine daily care and maintenance of Corian[®] is easy. But, because cleaning practices differ around the world, please consult your local supplier of Corian[®] for specific recommended care and maintenance practices and products. Use the following procedures as a guide to everyday care for Corian[®] solid surfaces:

- There are three types of countertop finish: matte, semi-gloss and gloss.
- All Corian[®] sinks and GRIFORM[®] Shower Bases have the matte finish.
- Soapy water or ammonia-based cleaners will remove most dirt and stains from all types of finishes.
- However, slightly different techniques must be used to remove difficult stains, depending on the finish. Please contact your source for Corian[®] for more information.

Preventing Heat and Other Damage

Although Corian[®] is quite resistant to heat; you should always use a hot pad or a trivet with rubber feet to protect Corian[®]. Hot pans, as well as some heat-generating appliances like frying pans or electric cooking pots, can damage the surface if a hot pad or trivet is not used.

- In most cases, Corian[®] can be repaired if it is accidentally damaged. However, be sure to follow these guidelines to prevent any permanent damage to Corian[®].
- Avoid exposing Corian[®] to strong chemicals, such as paint removers, oven cleaners, etc. If contact occurs, quickly flush the surface with water.
- Remove nail polish with a non-acetone-based polish remover and flush with water.
- Do not cut directly on Corian[®] countertops.

Removing Stains and Fixing Scratches or Burns

Nicks, scratches and cuts are inevitable with any high-use product, including Corian[®]. But because Corian[®] is solid all the way through, it is easy to renew to its original appearance as described below.

Minor damage, including scratches, general or chemical stains, scorches or burns, and minor impact marks, can be repaired on-site with a light abrasive cleanser and a product such as a Scotch-Brite[®] pad. For heavier damage, light sanding may be necessary. The following steps should be followed:

- Identify the extent of the damage and ascertain whether a minor repair will solve the problem. You may want to consult with your supplier of Corian[®].
- If the damage is minor, try to repair it with an abrasive cleanser or a product such as a Scotch-Brite[®] pad.
- If the above step is unsuccessful, hand-sand with 400-grit wet and dry paper. To minimize dust, wet the surface before starting.
- If this is unsuccessful, use an electric sander and heavier-grit paper. Always make provisions to control dust.
- If this, too, is unsuccessful, you may need to consult a professional for other repair options. In this case, contact your supplier of Corian[®] for assistance.

Renewing Corian[®]

Nicks. Stains. Cuts. Scratches. While these can permanently mar most other surfaces, they won't compromise the appearance of Corian[®] solid surfaces. That's because it's easy to restore Corian[®] to its original state, using an ordinary abrasive cleanser and a cleansing pad such as a green Scotch-Brite[®] pad. And, if damage does occur, Corian[®] can be repaired on site, saving both downtime and aggravation.

*Scotch-Brite is a trademark of the 3M Company[®].

Concrete Floor Construction

Griform® SHOWER PAN INSTALLATION PROCEDURE:

Delivery to Job-Site:

1. Store indoors prior to installation.
2. Keep the shower pan covered before and after installation. We recommend cutting a plywood cover and setting it in the pan. It should be small enough to not interfere with wall material.

Slab-floor Preparation:

1. The sub floor must be level and flat within 1/8". If it is not, mix Self Leveling Mortar and screed the floor level.
2. Shower must have 1/8" clearance to any adjacent member to allow for expansion.
3. The concrete slab should have a block out to allow the plumber to cut and fit the drain-line to the shower pan at the time of installation.
4. If the hole in the slab is greater than six inches from the center of the drain line, fill the hole with concrete level with the existing slab floor.
5. The Self Leveling Mortar must be thoroughly dry before proceeding with the installation.

Installation Instructions:

1. The Griform® pan is installed before green board is applied to the stud framing.
2. Place the pan in position to verify the drain location.
3. The plumber should normally verify the center location of the drain and then remove the pan to fit the drain to match. **(Dry fit only Do Not apply adhesive.)**
4. Be sure the hole in the concrete around the drain is large enough not to interfere with the plumbing. If the plumbing does not adequately clear, excessive pressure will be placed on the drain and cracking may occur.
5. Set the pan in place lowering it straight down onto the drainpipe connection.
6. Place a level on top of the rim of the pan and check for level in all directions. Also be sure the pan sits solidly on the floor. If not, go back to Slab-floor Preparation. Do not shim the Griform® pan. It is very important that the pan is evenly supported in all areas.
7. Be sure there is a 1/8" gap between the side of the pan and the wood studs. The pan must not be wedged in between the studs.
8. Griform® has allowed for the walls to be slightly out of square. You should be able to still align our pan with adequate clearance. Align the pan side of the flange with what will be the sub-wall face, 1/2" drywall will be 1/2" from stud framing. This will allow 1/4" from the back of the flange to the framing. You should never allow the flange to extend beyond the face of the sub wall (green board). This could exert external force on the flange.
9. Remove the pan and apply construction adhesive provided to the slab-floor where the pan will be setting. Have the plumber add adhesive to the pipe connection and lower the pan straight down onto the drain connection and onto the slab floor. Verify the alignment and that the clearances are at least 1/8" from the surrounding framing. It is recommended that a bead of silicone be ran along the bottom edge of the threshold to stop any chance of water getting under the pan. When using tile and grout this application is especially important. **Allow the adhesive to dry overnight before walking on the pan to avoid movement. Do not apply a screw or nail into the outside flange.**
10. Water resistant green board is now applied to the studs leaving a 1" air gap between the top of the flange of the pan and the bottom of the drywall.

Griform® assumes no responsibility for problems due to faulty installation.

NOTE: The installation of the pan will depend on the plumber but will require very little time for the installer.

Wood Floor Construction

Griform® SHOWER PAN INSTALLATION PROCEDURE:

Delivery to Job-Site:

1. Store indoors prior to installation.
2. Keep the shower pan covered before and after installation. We recommend cutting a plywood cover and setting it in the pan. It should be small enough to not interfere with wall material.

Sub-floor Preparation:

1. The sub floor must be level and flat within 1/8". If it is not, mix Self Leveling Mortar and screed the floor level.
2. Shower must have 1/8" clearance to any adjacent member to allow for expansion.
3. If the plumbers have not done so, mark the drain location with the pan in place, then remove the pan and cut a hole approximately 4" in diameter in the sub floor.
4. The Self Leveling Mortar fill must be thoroughly dry before proceeding with the installation.

Installation Instructions:

1. The Griform® pan is installed before green board is applied to the stud framing.
2. Place the pan in position to verify the drain location.
3. The plumber should attach a standard plastic or brass shower drain fitting to the pan using appropriate sealant. Tighten the large nut on the bottom of the pan securely. Do not over tighten.
4. Be sure the hole in the sub-floor around the drain is large enough not to interfere with the plumbing. If the plumbing does not adequately clear, excessive pressure will be placed on the drain and cracking may occur.
5. Place the pan over the cut out hole in the sub-floor and lower into position.
6. Place a level on top of the rim of the pan and check for level in all directions. Also be sure the pan sits solidly on the floor. If not, go back to Sub-floor Preparation. Do not shim the edge only of the Griform® pan. It is very important that the pan is evenly supported in all areas.
7. Be sure there is a 1/8" gap between the side of the pan and the wood studs. The pan must not be wedged in between the studs.
8. Griform® has allowed for the walls to be slightly out of square. You should be able to still align our pan with adequate clearance. Align the pan side of the flange with what will be the sub-wall face, 1/2 " drywall will be 1/2 " from stud framing. This will allow 1/4" from the back of the flange to the framing. You should never allow the flange to extend beyond the face of the sub wall (green board). This could exert external force on the flange.
9. Remove the pan and apply construction adhesive provided to the sub-floor and set pan onto sub floor into the adhesive and make final alignment. **Allow the adhesive to dry overnight before walking on the pan to avoid movement. Do not apply a screw or nail into the outside flange.**
10. The plumber can complete the drain connection and your Griform® pan is now installed. At this point of the installation it is recommended that a bead of silicone be applied along the bottom edge of the threshold to stop any chance of water getting under the shower pan. When using tile and grout this is especially important.
11. Water resistant green board is now applied to the studs leaving a 1" air gap between the top of the flange of the pan and the bottom of the drywall.

Griform® assumes no responsibility for problems due to faulty installation.

NOTE: Under normal conditions a shower pan can be installed in 15 minutes or less.

MATERIAL SAFETY DATA SHEET

Company Name: C.R. LAURENCE CO., INC.
Address: 2503 E. VERNON AVE.
City / State / Zip: LOS ANGELES / CA / 90058
US-CHEMTREC Phone(I): (800)424-9300
US-CHEMTREC Phone(II): (703)527-3887
CAN-CANUTEC Phone: (613)996-6666
Vendor Update: 4/7/2008
Date Prepared: 4/7/2008
MSDS Number: 33SAL ; 33SAL52GL ; 33SAL5GL ; 33SBL ;
 33SBL52GL ; 33SBL5GL ; 33SBRZ ; 33SBRZ52GL ;
 33SBRZ5GL ; 33SC ; 33SC52GL ; 33SC5GL ; 33SMRC ;
 33SMRC52GL ; 33SMRC5GL ; 33ST ; 33ST48GL ;
 33ST52GL ; 33ST5GL ; 33STW ; 33STW52GL ;
 33STW5GL ; 33SW ; 33SW52GL ; 33SW5GL ; 33SXX ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: SILICONE SEALANT
HMIS Ratings:
NFPA Ratings:

Health: Moderate(2)
 Flammability: Slight(1)
 Instability/Reactivity: Minimal(0)

Other: THIS MSDS IS GOOD FOR ALL COLORS OF 33S SERIES SILICONE WITH AND WITHOUT FUNGICIDE.
 EMERGENCY OVERVIEW:
 VARIOUS COLORED PASTES. IF INHALED CAN CAUSE SEVERE IRRITATION TO RESPIRATORY SYSTEM. LEAVE AREA TO BREATHE FRESH AIR. AVOID FURTHER OVEREXPOSURE. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION IMMEDIATELY. ACETIC ACID IS RELEASED DURING THE CURING PROCESS IN MOIST AIR. THE MAXIMUM THAT CAN BE RELEASED IS 3.4% BY WEIGHT.

II. COMPOSITION, INFORMATION ON INGREDIENTS

| Chemical Ingredients | C.A.S. Number | % By Weight | ACGIH TLV TWA/STEL | OSHA PEL TWA/STEL | Other TWA/STEL | LD50 | LC50 |
|--|---------------|-------------|--|------------------------|----------------|------|------|
| DIMETHYL SILOXANE HYDROXY -TERMINATED | 70131-67-8 | 50.0 - 80.0 | | | | | |
| Notes | | | | | | | |
| POLYDIMETHYLSILOXANE, TRIMETHYL ENDCAP | 63148-62-9 | 1.0 - 35.0 | | | | | |
| Notes | | | | | | | |
| SILICA, AMORPHOUS | 7631-86-9 | 7.0 - 20.0 | 10 MG/M ³ (NO ASBESTOS, | 6 MG/M ³ | | | |
| Notes | | | | | | | |
| ETHYLTRIACETOXSILANE | 17689-77-9 | 1.0 - 5.0 | | | | | |
| Notes | | | | | | | |
| METHYLTRIACETOXSILANE | 4253-34-3 | 1.0 - 5.0 | | | | | |
| Notes | | | | | | | |
| TITANIUM DIOXIDE | 13463-67-7 | 0.0 - 5.0 | 10 MG/M ³ (TOTAL DUST, NO ASBESTOS, | 10 MG/M ³ | | | |
| Notes | | | | | | | |
| CARBON BLACK | 1333-86-4 | 0.0 - 1.0 | 3.50 MG/M ³ | 3.50 MG/M ³ | | | |
| Notes | | | | | | | |

| | | | | | | | |
|------------------|-----------|-----------|---|---|--|--|--|
| ALUMINUM (METAL) | 7429-90-5 | 0.0 – 1.0 | 10 MG/M ³ (METAL DUST, 2 MG/M ³ TOTAL SOLUBLE SALTS | 15 MG/M ³ (TOTAL DUST, 5 MG/M ³ RESPIRABLE FRACTION | | | |
| <i>Notes</i> | | | | | | | |

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

| | |
|--|---|
| Eyes: | CAN CAUSE SEVERE IRRITATION. |
| Skin: | CAN CAUSE IRRITATION. ACETIC ACID CAN BE ABSORBED THROUGH SKIN. |
| Ingestion: | CAN BE HARMFUL IF INGESTED. |
| Inhalation: | CAN CAUSE SEVERE IRRITATION TO RESPIRATORY SYSTEM. |
| Signs and Symptoms of Exposure: | CHRONIC HEALTH EFFECTS: OVEREXPOSURE TO ACETIC ACID CAN CAUSE CONJUNCTIVITIS, BRONCHITIS, PHARANGITIS, AND EROSION OF EXPOSED TEETH. NO SERIOUS HEALTH EFFECTS HAVE BEEN ESTABLISHED IN MAN WHEN EXPOSED TO CARBON BLACK. INFLAMMATION, LUNG FIBROSIS, AND TUMORS HAVE BEEN OBSERVED IN ANIMALS AT LEVELS WHICH OVERLOAD LUNG CLEARANCE MECHANISMS. CARBON BLACK CONTAINS VARYING AMOUNTS OF POLYNUCLEAR AROMATIC COMPOUNDS (PNA'S) WHICH HAVE BEEN FOUND TO CAUSE CANCER IN ANIMALS. SOLVANT EXTRACTS OF CARBON BLACK ARE CARCINOGENIC TO THE SKIN OF MICE. IT IS CLASSIFIED BY IARC TO BE A KNOWN ANIMAL CARCINOGEN AND A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). FILLERS ARE ENCAPSULATED AND NOT EXPECTED TO BE RELEASED FROM PRODUCT UNDER NORMAL CONDITIONS OF USE. |

IV. FIRST AID MEASURES

| | |
|--------------------|--|
| Eyes: | FLUSH IMMEDIATELY WITH RUNNING WATER FOR 15 MINUTES, LIFTING THE UPPER AND LOWER LIDS OCCASSIONALLY. GET MEDICAL ATTENTION IMMEDIATELY. |
| Skin: | WASH AREA OF CONTACT THOROUGHLY WITH HAND CLEANER FOLLOWED BY SOAP AND WATER. IF IRRITATION, RASH OR OTHER DISORDERS DEVELOP, GET MEDICAL ATTENTION IMMEDIATELY. |
| Ingestion: | GET MEDICAL ATTENTION IMMEDIATELY. |
| Inhalation: | LEAVE AREA TO BREATHE FRESH AIR. AVOID FURTHER OVEREXPOSURE. IF SYMPTOMS PERSIST, GET MEDICAL ATTENTION IMMEDIATELY. |

V. FIRE FIGHTING MEASURES

| | |
|---|--|
| Flash Point: | NOT APPLICABLE. |
| Lower Flammability Limit: | N/A |
| Upper Flammability Limit: | N/A |
| Extinguishing Agents: | COMPATIBLE WITH ALL USUAL EXTINGUISHING MEDIA. |
| Unusual Fire or Explosion Hazards: | NOT APPLICABLE. |
| Fire Fighting Procedures: | WEAR FULL PROTECTIVE CLOTHING, POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS AND PROTECTIVE COVERING FOR EXPOSED AREAS OF THE HEAD. IF LARGE AMOUNT IS INVOLVED, EVACUATE AREA. |

Other: THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCT: CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICONE DIOXIDE. FORMALDEHYDE.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: ABSORB SPILL IN SAND, EARTH OR OTHER SUITABLE MATERIAL. TRANSFER TO APPROPRIATE CONTAINER FOR DISPOSAL.

VII. HANDLING AND STORAGE

Other: STORE UNDER NORMAL WAREHOUSE CONDITIONS. PREVENT INHALATION OF VAPOR, INGESTION, AND CONTACT WITH SKIN AND EYES. KEEP CONTAINER CLOSED WHEN NOT IN USE. PRECAUTIONS ALSO APPLY TO EMPTIED CONTAINERS. CHANGED SOILED WORK CLOTHES FREQUENTLY. CLEAN HANDS THOROUGHLY AFTER HANDLING.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes: WEAR SUITABLE SAFETY EYEWEAR.

Skin: PROTECT HANDS WITH IMPERVIOUS RUBBER GLOVES AND WEAR TYPICAL FULL COVER CLOTHING. PREVENT CONTACT WITH SKIN.
FACE: NOT REQUIRED

Respiratory: WEAR APPROPRIATE, PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR WHEN THE VENTILATION IS NOT ADEQUATE.

Engineering: USE LOCAL EXHAUST WHEN THE GENERAL VENTILATION IS NOT ADEQUATE.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: VARIOUS COLORED PASTE

Boiling Point: N/A

Freezing Point: N/A

pH: N/A

Solubility in Water: NEGLIGIBLE

Specific Gravity: 1.04

Vapor Pressure: N/A

Vapor Density: N/A

Physical State: PASTE

Volatile Content: VOC COMPLIANT, LESS THAN 39 g/L. VOLATILE WEIGHT: 3.5%.

X. STABILITY AND REACTIVITY

Stability: STABLE

Hazardous Polymerization: WILL NOT OCCUR.

Incompatible Products: AVOID CONTACT WITH HYDROFLUORIC ACID AND CONCENTRATED ALKALIS.

XI. TOXICOLOGICAL INFORMATION

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: N/A

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: NOT REGULATED BY RCRA. DISPOSE OF IN COMPLIANCE WITH STATE AND LOCAL REGULATIONS.

RCRA Class: N/A

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: NOT REGULATED

XV. REGULATORY INFORMATION

TSCA Status: ON THE TSCA INVENTORY.

EPA Sara Title III Chemical Listings: SARA 311 RATINGS
IMMEDIATE HEALTH HAZARD: Y
DELAYED HEALTH HAZARD: N
FIRE HAZARD: N
REACTIVITY HAZARD: N
SUDDEN RELEASE OF PRESSURE HAZARD: N
NO SARA 313 INGREDIENTS

California: NO PROPOSITION 65 INGREDIENTS

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.



Material Safety Data Sheet

An **RPM** Company

24 Hour Emergency Phone Numbers:

Medical/Poison Control:

1-800-327-3874

1-513-558-5111

Transportation/National Response Center:

1-800-535-5053

1-352-323-3500

NOTE: The National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.
On peut demander cette fiche signalétique (MSDS) a la langue francaise-canadienne.
Los Datos de Seguridad del Producto pueden obtenerse en Espanol si lo requiere.

| | | | |
|----------------------------|--|-----------------------|-------------|
| Product Name: | DAP® BEATS THE NAIL® VOC Construction Adhesive | Revision Date: | 09/10/2007 |
| Product UPC Number: | 070798270589, 070798270503, 070798274501, 070798274587, 070798274808 | Supercedes: | 08/01/2003 |
| Product Use/Class: | GP Construction Adhesive Latex | MSDS Number: | 00077095001 |
| Manufacturer: | DAP Inc. 2400 Boston Street Suite 200 Baltimore, MD 21224-4723 888-327-8477 (non-emergency matters) | | |

Section 2 - Hazards Identification

Emergency Overview: A colored paste product with a very slight ammonia odor. WARNING! May cause eye, skin, nose, throat and respiratory tract irritation. Harmful if swallowed or absorbed through the skin.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation. Harmful if absorbed through the skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Repeated or prolonged exposure may cause respiratory system damage.

Prolonged and repeated skin contact may cause irritation and possibly dermatitis. Overexposure may cause kidney, cardiovascular, skin and liver damage.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Ingestion, Eye Contact

Medical Conditions which May be Aggravated by Exposure: None known.

Carcinogenicity:

| CAS No. | Chemical Name | ACGIH | OSHA | IARC | NTP |
|------------|---------------------|---|--------------------------|----------------------|-------------------------|
| 14808-60-7 | Silica, crystalline | Suspected human carcinogen. | Not Listed. | Human carcinogen. | Known carcinogen. |
| 108-05-4 | Vinyl acetate | Confirmed animal carcinogen with unknown relevance to humans. | Not Listed. | Possible carcinogen. | Not Listed. |
| 50-00-0 | Formaldehyde | Suspected human carcinogen. | Potential cancer hazard. | Human carcinogen. | Anticipated carcinogen. |
| 75-07-0 | Acetaldehyde | Confirmed animal carcinogen with unknown relevance to humans. | Not Listed. | Possible carcinogen. | Anticipated carcinogen. |

Section 3 - Composition / Information On Ingredients

| Chemical Name | CASRN | Wt% |
|-----------------------------|------------|---------|
| Limestone | 1317-65-3 | 30-60 |
| Magnesium aluminum silicate | 12174-11-7 | 1-5 |
| Urea | 57-13-6 | 0.5-1.5 |
| Silica, crystalline | 14808-60-7 | 0.1-1.0 |
| Ammonia | 7664-41-7 | 0.1-1.0 |
| Vinyl acetate | 108-05-4 | <0.07 |
| Formaldehyde | 50-00-0 | <0.008 |
| Acetaldehyde | 75-07-0 | <0.002 |

Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: None.

COMMENTS: Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

Section 5 - Fire Fighting Measures

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

Special Firefighting Procedures: Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Avoid breathing vapor and contact with eyes, skin and clothing. Use only with adequate ventilation. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Wash thoroughly after handling.

Storage: Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Close container after each use. Store away from caustics and oxidizers.

Section 8 - Exposure Controls / Personal Protection

| Chemical Name | CASRN | ACGIH TWA | ACGIH STEL | ACGIH CEIL | OSHA TWA | OSHA STEL | OSHA CEIL | Skin |
|-----------------------------|------------|-----------|------------|------------|------------------------------------|-----------|-----------|------|
| Limestone | 1317-65-3 | 10 MGM3 | N.E. | N.E. | 5 MGM3 (respirable fraction) | N.E. | N.E. | No |
| Magnesium aluminum silicate | 12174-11-7 | N.E. | N.E. | N.E. | N.E. | N.E. | N.E. | No |
| Urea | 57-13-6 | N.E. | N.E. | N.E. | N.E. | N.E. | N.E. | No |
| Silica, crystalline | 14808-60-7 | 0.05 MGM3 | N.E. | N.E. | 10/(%SiO ₂ + 2) MGM3 | N.E. | N.E. | No |
| Ammonia | 7664-41-7 | 25 PPM | 35 PPM | N.E. | 50 PPM | N.E. | N.E. | No |
| Vinyl acetate | 108-05-4 | 10 PPM | 15 PPM | N.E. | N.E. | N.E. | N.E. | No |
| Formaldehyde | 50-00-0 | N.E. | N.E. | 0.3 PPM | 0.75 PPM | 2 PPM | N.E. | No |
| Acetaldehyde | 75-07-0 | N.E. | N.E. | 25 PPM | 200 PPM | N.E. | N.E. | No |

Exposure Notes:

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exists. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

Section 9 - Physical And Chemical Properties

| | | | |
|--------------------------------------|---------------------|----------------------------------|-----------------------------|
| Boiling Range: | Not Established | Vapor Density: | Heavier Than Air |
| Odor: | Very Slight Ammonia | Odor Threshold: | Not Established |
| Color: | Colored | Evaporation Rate: | Slower Than n-Butyl Acetate |
| Solubility in H₂O: | Not Established | Specific Gravity: | 1.5 |
| Freeze Point: | Not Established | pH: | Between 7.0 and 12.9 |
| Vapor Pressure: | Not Established | Viscosity: | Not Established |
| Physical State: | Paste | Flammability: | Non-Flammable |
| Flash Point, F: | > 200 F | Method: | (Seta Closed Cup) |
| Lower Explosive Limit, %: | Not Established | Upper Explosive Limit, %: | Not Established |

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., CO_x, NO_x.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD₅₀: Not Established

Product LC₅₀: Not Established

| CASRN | Chemical Name | LD ₅₀ | LC ₅₀ |
|-----------|---------------|------------------|---------------------------------|
| 57-13-6 | Urea | Rat:8471 mg/kg | ----- |
| 7664-41-7 | Ammonia | ----- | Rat:2000 ppm/4H |
| 108-05-4 | Vinyl acetate | ----- | Rat:11400 mg/m ³ /4H |
| 50-00-0 | Formaldehyde | ----- | Rat:203 mg/m ³ |
| 75-07-0 | Acetaldehyde | ----- | Rat:13300 ppm/4H |

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.

Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.

In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde.

Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

EPA Waste Code if Discarded (40 CFR Section 261): None.

Section 14 - Transportation Information

| | | | |
|----------------------------------|---------------|--------------------------|------|
| DOT Proper Shipping Name: | Not Regulated | Packing Group: | N.A. |
| DOT Technical Name: | N.A. | Hazard Subclass: | N.A. |
| DOT Hazard Class: | N.A. | DOT UN/NA Number: | None |

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

| Chemical Name | CAS Number |
|---------------|------------|
| Water | 7732-18-5 |

| | |
|-----------------------|-------------|
| Non-Hazardous Polymer | Proprietary |
| Acrylic polymer | Proprietary |

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

| Chemical Name | CAS Number |
|-----------------------|-------------|
| Water | 7732-18-5 |
| Non-Hazardous Polymer | Proprietary |
| Acrylic polymer | Proprietary |

California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16 - Other Information**HMIS Ratings:**

Health: 1 Flammability: 1 Reactivity: 0 Personal Protection: X

Volatile Organic Compounds (VOC), less water less exempts: g/L: 2.4 lb/gal: 0.0 wt:wt%: 0.1

Volatile Organic Compounds (VOC), less water less exempts, less LVP-VOCs: wt:wt%: 0.1

REASON FOR REVISION: Periodic Update

| | | |
|----------------|----------------------------------|---|
| Legend: | N.A. – Not Applicable | ACGIH – American Conference of Governmental Industrial Hygienists |
| | N.E. – Not Established | SARA – Superfund Amendments and Reauthorization Act of 1986 |
| | N.D. – Not Determined | NJRTK – New Jersey Right-to-Know Law |
| | VOC – Volatile Organic Compound | OSHA – Occupational Safety and Health Administration |
| | PEL – Permissible Exposure Limit | HMIS – Hazardous Materials Identification System |
| | TLV – Threshold Limit Value | NTP – National Toxicology Program |
| | CEIL – Ceiling Exposure Limit | STEL – Short Term Exposure Limit |
| | LD50 – Lethal Dose 50 | LC50 – Lethal Concentration 50 |
| | F – Degree Fahrenheit | MSDS – Material Safety Data Sheet |
| | C – Degree Celsius | CASRN – The Chemical Abstracts Service Registry Number |

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.



The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

Page 1

"CORIAN" PRODUCTS, SILICONE SEALANT ALL COLORS
COR005 Revised 15-FEB-2007

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

Corian is a registered trademark of DuPont.

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-(800)441-7515
Transport Emergency : 1-(800)424-9300 (CHEMTREC)
Medical Emergency : 1-(800)441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

| Material | CAS Number | % |
|--|------------|-------|
| DIMETHYL SILOXANE, HYDROXY-TERMINATED | | 80-82 |
| AMORPHOUS SILICA | 7631-86-9 | 10 |
| | 63148-62-9 | |
| DIMETHYLL SILOXANE, TRIMETHYLSILYLOXY-TERMINATED | | <3 |
| ETHYLTRIAACETOXYSILANE | 17689-77-9 | 2 |
| METHYLTRIAACETOXYSILANE | 4253-34-3 | 2 |
| TITANIUM DIOXIDE | 13463-67-7 | <2 |
| COLOR ADDITIVES (VARIOUS) | | <1 |

Components (Remarks)

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Acetic Acid is formed during cure from exposure to moisture

HAZARDS IDENTIFICATION

Potential Health Effects

INHALATION

May cause nose and throat irritation.

SKIN CONTACT

Repeated or prolonged contact may cause moderate skin irritation.

EYE CONTACT

May cause irritation or burning of the eyes.

INGESTION

Not a likely route of exposure.

Carcinogenicity Information

The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

| Material | IARC | NTP | OSHA | ACGIH |
|------------------|------|-----|------|-------|
| TITANIUM DIOXIDE | 2B | | | |

FIRST AID MEASURES

First Aid

INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advisable.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : >100 C (>212 F)

Hazardous decomposition products include sulfur oxides.

Extinguishing Media

Water, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Ventilate spill area.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Keep away from heat, sparks and flames. Close container after each use.

Storage

Store below 120 F (49 C). Keep container closed and store away from water or moisture.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment

EYE PROTECTION: Safety glasses with side shields as a minimum.

VENTILATION: Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements and other suggested exposure limits.

RESPIRATORY: No respiratory protection should be needed.

PROTECTIVE CLOTHING: Rubber or plastic gloves are recommended.

Exposure Guidelines

Applicable Exposure Limits

AMORPHOUS SILICA

PEL (OSHA) : 80 mg/m³ / % SiO₂ - 8 Hr TWA
AEL * (DuPont) : 3 mg/m³, 8 & 12 Hr. TWA, respirable dust

TITANIUM DIOXIDE

PEL (OSHA) : 15 mg/m³, total dust, 8 Hr. TWA
TLV (ACGIH) : 10 mg/m³, total dust, 8 Hr. TWA, A4
AEL * (DuPont) : 10 mg/m³, 8 & 12 Hr. TWA, total dust
5 mg/m³, 8 & 12 Hr. TWA, respirable dust

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

% Volatiles : No Data Available
Solubility in Water : No Data Available
Specific Gravity : 1.04
Color : Varies.
Form : Paste.

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

None reasonably foreseeable.

(STABILITY AND REACTIVITY - Continued)

Decomposition

Decomposes with heat.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

No information available.

ECOLOGICAL INFORMATION

Ecotoxicological Information

Aquatic Toxicity

No information available.

Toxicity is expected to be low based on insolubility in water.

DISPOSAL CONSIDERATIONS

Waste Disposal

Do not flush to surface water or sanitary sewer system.
Incinerate material in accordance with Federal, State/Provincial
and Local requirements. Do not incinerate in closed containers.

TRANSPORTATION INFORMATION

Shipping Information

DOT
Proper Shipping Name : Not regulated

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

State Regulations (U.S.)

STATE RIGHT-TO-KNOW

