

Indoor Environment Quality

IEQ-11 Volatile Organic Compounds

Points Available	Points Claimed	CIR Submitted
8	6	N

Credit Criteria

Up to eight points are awarded where it is demonstrated that benchmarks for low Volatile Organic Compound (VOC) content are met, as follows:

- 2 points where 95% of all painted surfaces are low-VOC paints (AELA 23-2005) or no paint is used;
- 2 points where all carpets are low-VOC (US Carpet and Rug Institute Green Label) or no carpet is installed;
- 2 points where all adhesives and sealants are low-VOC (South Coast Air Quality Management District (California, U.S.) Rule 1168) or no adhesives/sealants are used;

Documents Provided

Paint

✓	Corresponding information from the supplier(s) that quantifies the product(s) supplied (i.e. paints). IEQ-11: 1
✓	Information from the sub-contractor that confirms that the product(s) supplied were used/installed in the tenancy fitout. (i.e. paints). IEQ-11: 2
✓	VOC data sheets that detail the VOC level of each product that points are claimed for (i.e. paints). The applicant must also demonstrate that the VOC content of the materials/finishes are within the VOC limits prescribed in the 'Additional Guidance' section. IEQ-11: 3

Carpets

✓	Corresponding information from the supplier(s) that quantifies the product(s) supplied (i.e. carpets). IEQ-11: 4
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✓	Information from the sub-contractor that confirms that the product(s) supplied were used/installed in the tenancy fitout. (i.e. carpets). IEQ-11: 5
✓	VOC data sheets that detail the VOC level of each product that points are claimed for (i.e. carpets). The applicant must also demonstrate that the VOC content of the materials/finishes are within the VOC limits prescribed in the 'Additional Guidance' section. IEQ-11: 6

Adhesives and sealants

✓	Corresponding information from the supplier(s) that quantifies the product(s) supplied (i.e. adhesives and sealants). IEQ-11: 7
✓	Information from the sub-contractor that confirms that the product(s) supplied were used/installed in the tenancy fitout. (i.e. adhesives and sealants). IEQ-11: 8
✓	VOC data sheets that detail the VOC level of each product that points are claimed for (i.e. adhesives & sealants). The applicant must also demonstrate that the VOC content of the materials/finishes are within the VOC limits prescribed in the 'Additional Guidance' section. IEQ-11: 9

Discussion

- Breakdown of paints used by quantity to demonstrate that >95% of painted surfaces comply with the VOC limit in the Technical Manual.

Paint Name	L/Container	# of Containers	% added water	Total L/paint	VOC content	VOC limit
Coprimax	14	12	50	252	12 g/L low-sheen	16 g/L
Supercolor	14	10	50	210	12 g/L low-sheen	16 g/L
Special Primer (Novalis)	2.25	12	5	28.4	35 g/L interior flat	16 g/L
Ultrasaten Satin	14	10	50	210	13 g/L low-sheen	16 g/L
Taseal (sealer)	20	1	0	20	3 g/L interior sealer	65 g/L
Supernova (sealer)	5	3	0	15	2 g/L interior sealer	65 g/L
First Base (sealer)	5	2	0	10	0.85 g/L sealer	65 g/L
Total				745.4		

As the Special Primer (**Novalis**) has a VOC content higher than the specified limit, we remove it from the total paint used. It represents 3.81% of the total paint used on site.

Calculation: $28.4L/745.4L*100 = 3.81\%$

Therefore, greater than 95% of painted surfaces comply with the VOC limit.

- The only carpet installed in the tenancy is InterfaceFLOR carpet tiles. This carpet meets low VOC criteria as shown on the CETEC test certificate on page 24. The VOC limit in the Technical Manual for carpets is 0.5 mg/m² per hour with a 4-PC limit of 0.05 mg/m² per hour. As shown in compliance documentation, the InterfaceFLOR GlasBacRE tiles installed have a total VOC emission rate of less than 0.01 mg/m² per hour.

Therefore, 100% of carpets comply with the VOC limit.

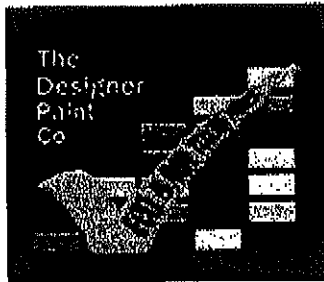
- Breakdown of the adhesives and sealants by quantity to prove that >95% of adhesives and sealants comply with the VOC limit.

Adhesive/Sealant	Kg/ Container	Quantity of Containers	Total kg adhesive	VOC content	VOC limit
Tasglu	5.2	5	26	7.2 g/L construction adhesive	70 g/L
Bostik No More Nails	.320	2	.640	287 g/L construction adhesive	70 g/L
Mastertop P15	20	72	1440	13 g/L architectural sealant	250 g/L
Valiant MR Duct Sealant	6.5 (4 litre)	1	6.5	120 g/L architectural sealant	250 g/L
Total			1,473.14		

As the **Bostik No More Nails** has a VOC content higher than the specified limit, we remove it from the total Adhesive/Sealant used. It represents 0.043% of the total adhesives used on site.

Calculation: $.64 \text{ kg}/1,473.14\text{kg}*100 = 0.043\%$

Therefore, greater than 95% of adhesives/sealants comply with the VOC limit.



The Designer Paint Co
2 /142 Siganto Drive Oxenford Qld 4210
Ph: (07) 5502 6988



green building council australia
MEMBER

Simply The Best Paints
2/142 Siganto Drive
Oxenford, Queensland 4210-
Australia

Phone: (75) 502-6988 Fax: (75) 502-6088
ABN 55 090 575 401

Tax Invoice

Invoice Date	7/03/2008	Contact Name	Adam Terrill
Invoice No	611	Customer ID	73
Order Date	7/03/2008	Order Number	GBCA

Bill To:

SCHIAVELLO Group Pty Ltd
1 Sharps Road
Tullamarine, Victoria 3043-

Deliver To:

SCHIAVELLO Group Pty Ltd
1 Sharps Road
Tullamarine, Victoria 3043-

ID	Product Name	Quantity	Unit Price	Line Total
529	Coprimax 14Ltr			
893	Supercolor 14ltr Base P			
383	Special Primer 2.25Ltr			
762	Ultrasaten Satin 14ltr P			

Bank

Bank Account Details
Account Name: Simply The Best Paints
BSB: 084917
Account Number:532281317
Bank: National Australia Bank

Subtotal	\$8,691.72
Freight Charge	\$0.00
Sales Tax	\$869.17
Order Total	\$7,360.89
Total Payments	\$7,360.89
Total Due	\$0.00

TASMAN.

ACCESS FLOORS

DELIVERY DOCKET / PACKING LIST

GREEN BUILDING COUNCIL

No. 23563

01 AUGST

DATE 11-12-07

L-15

PART COMPLETE

179 ELIZABETH ST

ACCOUNT No. 4192012

SYDNEY

JOB No. 8549

ORDER No.

PART / CODE No.	DESCRIPTION	QUANTITY
TC750VC	TASCOR UNIFY PANELS S/H	305
PBT190	PEDESTAL BASES	1020
UNH105	PEDESTAL HEADS - UNIFY	810
PH190100	PEDESTAL HEADS	210
GPTR-C	GASKETS	210
UNFH	WASHERS UNIFY	810
FOFH	FASTENERS UNIFY	810
DBL100	PANEL LIFTER BRACKET BLACK	1
TASGAL	PEDESTAL ADHESIVE	5
TASGAL	CONCRETE SEALER - 20 Ltr	1
	ALPINE (10) MDF 2400x1200x18 mm	8
BSB	BANDSAW BLADES 14TPI	5
	SURE DRIVES M6'S x 50	100
	MARTI JENSEN	2 12 07

DESPATCHED
BYRECEIVED IN GOOD ORDER AND CONDITION
BY

MARTI

IEQ-11:1



AGAR CLEANING SYSTEMS PTY LTD

UNIT 4, 25 GEORGE STREET,
HOMEBUSH, N.S.W. 2140

A.B.N. 80 004 726 890

The Chemistry of Cleaning

Phone: (02) 9743 6020 Fax: (02) 9736 2512

01178

TAX INVOICE No. DATE <u>25-1-08</u> PAGE _____		DELIVERY INSTRUCTIONS: <input checked="" type="checkbox"/> PICK UP <input type="checkbox"/> AGAR Driver <input type="checkbox"/> CARRIER Name Ph. _____ Details: PICK UP Date required by _____
CUSTOMER DETAILS ABN No. <u>609</u> Name _____ Address _____		
C.O.D. \$ <input type="checkbox"/> CASH <input type="checkbox"/> CHQ. <input type="checkbox"/> CRED CARD		

ORDER No.	PRICE LEVEL	CONTACT NAME & PHONE No.	DEPARTMENT	AREA

STOCK CODE	ITEM/DESCRIPTION	PER.	QTY.	Unit Price	PRICE	GST	TOTAL PRICE
FIR S	FIRST BASE	5	2				
SUP	SUPER NOVA	- 5	3				

COMMONWEALTH BANK
 EFTPOS
 AGAR CLEANING SYSTEM
 HOMEBUSH NSW
 TERMINAL: 21765200
 REFERENCE: 000622

CUSTOMER COPY

CARD NO.: 550201-365
 EXPIRY DATE: 11/09
 CREDIT
 PURCHASE
 TOTAL AUD

25 JAN 2008 11:22
 CITIBANK MASTERCARD

APPROVED **08**
 THANK YOU

TOTAL GST _____
TOTAL AMOUNT PAYABLE (Includes GST) _____

ORDER TAKEN BY: [Signature] (Name) REVIEWED: _____ (Initials)

19/05/2008

Joe Karten
Green Building Council of Australia
PO Box Q78
QVB NSW 1230

Dear Joe,

This letter confirms that the following paints were supplied, and have been used for the GBCA Tenancy Fitout at Level 15, 179 Elizabeth Street.

- coprimax
- supercolor
- special primer (novalis)
- ultrasaten satin

Kind Regards,



Ashley Roberts
Manager

ABN 46 122 806 928

ACN 122 806 928

P.O. Box 672, Five Dock, NSW, 2046

P 02 9712 3600

F 02 9712 3909

Lic. 196140C

10 March 2008

Mr Adam Terrill
Schiavello Project Solutions

Fax: 03 9674 1666

RE: GBCA Green Star Evidence

Dear Adam,

This letter is to confirm that the installation & quantities of the following products on the Green Building Council Australia (GBCA) Project in Sydney:

- **Tasman Taseal Low VOC Slab Seal- 20 Litres**
- Alpine E0 MDF 1200mm x 2400mm x 18mm Board- 8 sheets

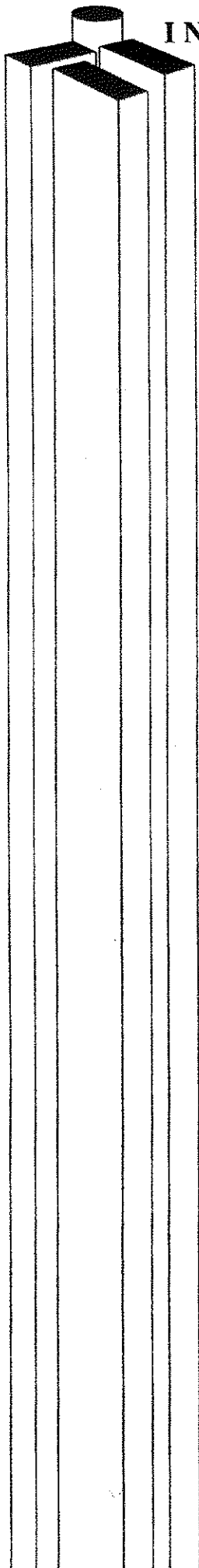
Please see attached delivery docket/ packing list for confirmation.

Should you have any further questions, please don't hesitate to give me a call.

Regards,



Gavin Lee
Sales Manager NSW/ACT
Tasman Access Floors Pty Ltd
0413 232 080



INTERIORS

FACSIMILE

TO: Green Building Council Australia

ATTENTION: Joe Karten / Adam Terrill

FAX NO: (02) 8252 8223 (03) 9674 1666

FROM: Ray Allan

DATE: 12.06.08

PAGES (including this page) 3

SUBJECT: Letters as requested

Joe,

Please find attached copies of letter for Floor Treatments and Insulation as requested.
 Should you have any further queries in regards to the above matter please do not hesitate to contact the under signed

Regards

RAY ALLAN
 Site Manager
 Mobile: 0407 906 839
 e-mail: ray@totalimage.com.au



Job Reference Number: #07666

Total Image Interiors Pty Ltd
abr: 91 125 277 689

11th June 2008

Green Building Council of Australia
Level 15
179 Elizabeth Street
SYDNEY NSW 2000

PO Box 6466
South Sydney BC
Alexandria NSW 2015
Ph: (02) 9700 7122
Fax: (02) 9700 7433
www.totalimage.com.au

Attention: Joe Kanten

Dear Joe

This letter confirms that Total Image Interiors sealed the exposed concrete floors using Mastertop levelling compounds, Agar First Base and Agar Supernova in January 2008.

Feel free to contact me with any questions you may have.

Yours sincerely

A handwritten signature in cursive script that reads "Ray Allan".

RAY ALLAN
Site Manager



EXPORT DEPARTMENT

OIKOS S.r.l.

Via Cherubini, 2 47043 Gatteo Mare (FC) Italy

www.oikos-paint.com

Tel. 0039/0547/681460

Fax 0039/0547/681470

E-mail address: oikosexp@tin.it

From: Jonathan Sharpe

Ref. VOC Levels

Attn.: Tony

Date: June 24th 2006

E-mail no. 870

Number of pages:
(including this one)

To Designer Paint

Please find below the VOC levels for the products specified

INTERIOR**Coprimax** contains a maximum 12 g/L**Supercolor** contains a maximum 10 g/L**Ultrasaten** contains a maximum 13 g/L**NOVALIS****Special Primer** contains a maximum 35 g/L

Non-compliant paint

The method used to calculate the VOC method is ISO 11890-2, as indicated in the directive 2004/42/CE

METHODS REFERRED TO IN ARTICLE 3.1

Parameter	Unit	Test	
		Method	Date of publication
VOC content	g/l	ISO 11890-2	2002
VOC content where reactive diluents are present	g/l	ASTMD 2369	2003

Best regards,

Oikos srl

Jonathan Sharpe
Export Area Manager

SAFETY DATA SHEET

(In accordance with directive 2001/58/CE)

SUPERCOLOR

Rev.4

Date	Revision	Description
02/11/06	4	Insertion of VOC values and update to the XXIX amendment of the Dir. 1999/45/CE
21/02/05	3	Change of legal address
15/04/03	2	Update in accordance with the XXVIII change of the Dir. 1999/45/CE
02/12/02	1	Updated in accordance with the Dir 2001/58/CE
16/09/02	0	Published

1 Identification of company and product

Product Name: SUPERCOLOR

Product Description: Water based, acrylic, washable paint

Company: OIKOS S.R.L. – Via Cherubini, 2
47043 Gatteo Mare (FC)
Tel. 0547/681412 – Fax 0547/681430

Emergency Telephone N°: 0547/681412

2 Composition/Information on Ingredients

Dangerous Components:

3 Danger Identification

The product does not result as being dangerous in accordance with Directive 1999/45/CE and following amendments.

Classification of the product: /

Indication of specific dangers for humans and the environment: Prolonged contact could cause light irritation to skin and eyes.

4 First aid measures

Immediate medical assistance is not necessary

Inhalation: Breathe fresh air. Consult a doctor should respiratory problems persist.

Eye contact: Rinse thoroughly and persistently with fresh water, it is better if the water is a sugar water solution, keeping the eyes wide open, if irritation persists, seek medical advice.

Skin contact: Remove all contaminated garments of clothing, wash with soap and water..

Ingestion: Drink plenty of water, consult a doctor. Never give anything to be taken orally to a person who is unconscious

SAFETY DATA SHEET

(In accordance with directive 2001/58/CE)

SUPERCOLORRev.4

5 Anti incendiary Measures

Ideal means of extinction: Use suitable means to surround and extinguish the fire (eg. CO₂, foam, water mist, powder).

Means of extinction indicated as inappropriate for safety reasons. None

Products/gas from thermal decomposition:/

Special protection systems for fire fighting personnel:

6 Accidental spill or leak handling information

Individual precautions: Floors may become slippery; use care to avoid falling. Equip oneself with protective clothing.

Environmental precautions: Avoid the infiltration of surface water courses or sewer networks.

Means of Intervention: Contain leaks with inert material (sand, sawdust, etc.). Transfer the product in separate containers for its recovery or disposal. Wash thoroughly with water.

7 Storage and handling

Handling: Avoid contact with the eyes and skin. When the product is not in use, keep containers closed

Storage: Keep containers closed. Keep from freezing. Do not store the material at temperatures lower than +2°C, or in excess of +36°C.

8 Personal protection./exposure controls.

Exposure limit Information: Data not available.

Controls on professional exposure:

- **Protection of the respiratory system:** Not necessary.
- **Hand protection:** Protective gloves.
- **Eye protection:** Safety glasses.
- **Skin protection:** Use protective clothing.

Controls on environmental exposure:/

SAFETY DATA SHEET

(In accordance with directive 2001/58/CE)

SUPERCOLOR

Rev.4

9 Chemical and physical properties

Appearance	Paste
Colour	White + shades of the colour chart
State	Liquid
Odour	Characteristic
pH	8,5-9,0
Boiling point/interval	Data not available
Flash point	Data not available
Flammability	Data not available
Explosive properties	Data not available
Combustion properties	Data not available
Vapour pressure	Data not available
Relative density	1,6
Solubility	Mixable in water
Coefficient of Octanol/Water partition	Data not available
Viscosity	20000 cps
Vapour density	Data not available
Speed of evaporation	Data not available

10 Stability and reactivity

Conditions to avoid: /

Materials to avoid: There are no known materials that are incompatible with this product

The result of dangerous decomposition: The product does not cause dangerous polymerisation.

11 Toxicological Information

Toxicity through inhalation: No data available.

Toxicity through ingestion: No data available.

Skin irritation: No data available.

Eye irritation: No data available.

Further Information: / See article 3

12 Ecological Information

Eco-toxicity of the product: Data not available.

Mobility, persistence, degradability and potential for bioaccumulation of the components: /

SAFETY DATA SHEET

(In accordance with directive 2001/58/CE)

SUPERCOLOR

Rev.4

Further Information: Use according to good working practices, avoid dispersion into the environment. Do not introduce the product into the water table, surface water courses or into the sewer network.

13 Remarks on disposal

Disposal: The remainder of the product, waste deriving from the use of the product and the empty containers must be disposed of in accordance with the applicable state or regional regulations

14 Transport Information

Classification for transportation by road or rail. (ADR/RID):

Classification for transportation by sea (IMO/IMDG):

Classification for transportation by air (IATA/ICAO):

(No particular transport conditions exist.)

15 Information on the regulations

The product is classified according to the Chemical compound Directive 1999/45/CE updated to the XXIX amendment.

Labels:/

Contains/

Phrases "R" (Risk phrases):/

Phrases "S" (Safety Advice):/

Indications according to the norm 2004/42/CE regarding the emissions limit of volatile organic compounds (Directive VOC):

Matt coatings for interior walls and ceilings. Indications according to the EU regulation 2004/42/CE for COV Supercolor limit Cat A/a: 75g/L (2007); 30 g/L (2010) Supercolor contains max 12 g/L

16 Other Information

Bibliography:

Safety Data Sheets supplied by Manufacturers.

The information contained in this Safety Data Sheet is correct as far as our best knowledge of the product at the time of publication. Such information is supplied with the only intent being to allow the correct and safe use, storage, transportation and disposal of the product. This information must not be considered a guarantee or proof of the quality of the product. Such information refers solely to the material specifically indicated in this safety data sheet and is not valid in the event that the

SAFETY DATA SHEET

(In accordance with directive 2001/58/CE)

SUPERCOLOR

Rev.4

product is used together with other materials or in other processes different from those indicated in the text of the above Safety Data Sheet.

FORAY LABORATORIES PTY. LTD.

2/27 Normanby Road
Clayton North, 3168
www.cetec-foray.com.au

Telephone: 03-9544-9111
Fax: 03-9544-9122
Email: info@cetec-foray.com.au

LABORATORY REPORT: 0604-04
Client: Simply The Best Paints Company

1 SAMPLE IDENTIFICATION AND DESCRIPTION

Paint materials were sampled by client and analysed as received April 6th, 2006.

Table 1: Sample Identification and Description

Sample Identification	Description
57885	Ultrasaten

Samples to be analysed VOC content as per ASTM D3960 Standard Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings. This method references other ASTM standard practices.

2 RESULTS

	57885
Density (g/mL)	1.333
Total Volatiles (%)	43
Water Content (%)	42
Exempt Compounds (%)	None Detected
VOC Content Material (g/L)	13

FORAY LABORATORIES PTY. LTD.

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Clayton North, 3168
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Telephone: 03-9544-9111
Fax: 03-9544-9122
Email: info@cetec-foray.com.au

LABORATORY REPORT: 0604-04
Client: Simply The Best Paints Company

3 PARAMETER UNITS

Name	Method	Units	Detection Limits	Precision
Density	ASTM D1475	g/mL	Not Applicable	10%
Total Volatiles	ASTM D 2369	%	<1	10%
Water Content	ASTM D4017	%	<1	10%
Exempt Compounds	ASTM D4457	%	<0.5	10%

4 PARAMETER METHODS

Name	References & Techniques
Density	ASTM D1475: Standard Test Method for Density of Liquid Coatings, Inks and Related Products.
Total Volatiles	ASTM D2369: Standard Test Method for Volatile Content of Coatings.
Water Content	ASTM D4017: Standard Test Method for Water in Paints and Paint Materials by Karl Fisher Method.
Exempt Compounds	ASTM D4457: Standard Test Method for Determination of Dichloromethane and 1,1,1-Trichloroethane in Paints and Coatings by Direct Injection into a gas Chromatograph.



Dr. Robert Schiller
PhD, BSc(Hons)
NACE, IMEA
Senior Consultant



Dr. Vyt Garnys
PhD, BSc(Hons), AIMM, ARACI, ISIAQ
AIRAH, ACA, FMA
Managing Director and Principal Consultant

April 13th, 2006

VOC Declaration

The VOC content of the requested products are as follows:

<u>Code</u>	<u>Product</u>	<u>TVOC g/Ltr</u>
910353	TASEAL Concrete Dust Sealer 20 Ltrs	3

Reference Documents

VOC (Volatile Organic Compound) as defined under the Californian South Coast AQMD, Rule (Regulation) 1168 and Rule (Regulation) 102.

TVOC (Total Volatile Organic Compound) has been empirically calculated as defined under the Californian South Coast AQMD, Rule (Regulation) 1168.

Green Building Council of Australia, Technical Manual, IEQ-11 Volatile Organic Compounds



MARK CLISSOLD
Technical & Operations Manager
 11th May, 2007

Product Data Sheet

Product Code: SUPN

Issue No.: 1

Environment



SUPER NOVA conforms with all statutory environmental requirements. It is based on safe ingredients selected to perform efficiently so there is no waste or damage. SUPER NOVA is non-flammable. Containers are recycled wherever possible.

VOC Content:

SUPER NOVA contains less than 2 grams of Volatile Organic Compounds per litre. SUPER NOVA therefore complies with "green" standards which require the VOC content to be less than 7% (i.e., 70 grams per litre).

Main Benefits

- ✓ SUPER NOVA is made with innovative polymer technology to form a tough film that holds its shine even without buffing.
- ✓ SUPER NOVA will not discolour.
- ✓ SUPER NOVA is non-slip.
- ✓ SUPER NOVA will dramatically lift the standard of shine on floors that receive minimal maintenance.
- ✓ SUPER NOVA is designed to save time and money.

Product Use

SUPER NOVA is a non-slip sealer for vinyl, sealed timber and terrazzo floors. Because it repels scuffs, scratches and traffic marks and lasts exceptionally well, SUPER NOVA is ideal for use on floors that are not buffed. In fact, floors can be maintained without a buffing machine when SUPER NOVA is used.

Product Type

SUPER NOVA is a super-glossy, rock-hard sealer that is so tough and mark-resistant that it holds its shine even without buffing, yet it will respond well to being buffed.

Technical Data

Properties



COLOUR – Milky white liquid
 ODOUR – Faint ammonia odour
 pH = 9.0 ± 0.5

Slip Resistance

SUPER NOVA passes the Slip Resistance Test under dry conditions as specified in AS/NZS 4586-1999. It gives a mean Dynamic Coefficient of friction of 0.75.

Application

- Remove adhesive, built-up sealer or wax and other soilage using ULTRASTRIP. New floors should always be stripped prior to sealing. Whilst a new floor looks clean, it is covered in a protective film added at the time of manufacture. New floor sealer will not adhere to this film, so it must be stripped.
- Rinse floor, allow to dry, then fringe-mop to remove dust.
- Mop on 2-4 coats of SUPER NOVA allowing 20-30 minutes to dry between coats, then allow to harden overnight.
- Maintain floor by cleaning with AUTOSCRUB. If the gloss wears down after a period of several weeks, clean the floor then apply another coat of SUPER NOVA.
- After six months, the floor may need to be stripped so the coating may be renewed.
- Do not apply any sealer to a very cold floor (9°C or less).

Coverage:

40 - 50 sq metres per litre

Available Pack Sizes: 5L & 20L

Agar Cleaning Systems maintains Material Safety Data Sheets (MSDS) on all of its products. These sheets contain information that you may need to protect your employees and customers against health or safety hazards associated with our product. Agar Cleaning Systems recommends that you obtain a copy of the respective MSDS sheet prior to using this product. The information in the Product Data Sheet is based on data we believe to be reliable. It is offered in good faith, but without guarantee, as conditions and methods of use of our product are beyond our control.



MELBOURNE
 Agar Cleaning Systems P/L
 12-14 Cope Street
 PRESTON VIC 3072
 Ph: (03) 9480 3000

ADELAIDE
 Agar Cleaning Systems P/L
 Unit 1, 59-63 Mooringe Ave
 PLYMPTON SA 5038
 Ph: (08) 8293 2020

BRISBANE
 Agar Cleaning Systems P/L
 Unit 14, 28 Bangor Street
 ARCHERFIELD QLD 4108
 Ph: (07) 3205 7244

SYDNEY
 Agar Cleaning Systems P/L
 Unit 4, 25 George Street
 HOMEBUSH NSW 2140
 Ph: (02) 9743 6020

PERTH
 Briskleen Supplies
 Unit 5, 7 Agett Road
 MALAGA WA 6062
 Ph: (08) 9249 4566

Product Data Sheet

Product Code: FIR

Issued: May 15, 2008

What is First Base?

FIRST BASE is a superior sealer that gives floors a clear, protective coating which shields them from the harsh effects of traffic wear, spillages and weathering. Because it is water-based, FIRST BASE is odourless, non-flammable and environmentally responsible. It has excellent adhesion and stops surface dusting on concrete. FIRST BASE has a high resistance to UV light and is suitable for both interior and exterior applications (but is not suitable for outdoor timber decks exposed to the rain).

Environment



FIRST BASE conforms with all statutory environmental requirements. It is based on safe ingredients selected to perform efficiently so there is no waste or damage. FIRST BASE is non-flammable and water-based. Containers are recycled wherever possible.

VOC Content:

FIRST BASE contains 0.85 grams of Volatile Organic Compounds per litre. FIRST BASE therefore complies with 'green' standards which require the VOC content to be less than 7% (ie., 70 grams per litre).

How does it work?

FIRST BASE forms a clear film of tough acrylic inside the surface of the floor. This film keeps dirt and spillages out and stops dust from rising out of concrete.

FIRST BASE is an excellent base coating because it fills the porosity in the floor and provides a smooth, even base for the topcoats to spread over. This dramatically improves the life of the film.

For use on...

FIRST BASE is a clear, non-slip sealer designed for application to vinyl, timber, terrazzo, porous stone and concrete floors. Because it sets quickly, floors can return to service within hours. FIRST BASE is excellent in food storage areas where solvents are not permitted. FIRST BASE is a base-coat that is only to be used directly in contact with the bare floor surface.

Technical Data

Properties



COLOUR – Milky white liquid
ODOUR – Faint
pH = 8.0 ± 0.5
REMOVABILITY – Strippable but requires concentrated stripper.

Slip Resistance

FIRST BASE passes the Slip Resistance Test under dry conditions as specified in AS/NZS 4586-1999. It gives a mean Dynamic Coefficient of friction of 0.90 which is well above the minimum requirement of 0.40.

Coverage

15 - 30 sq. metres per litre on concrete; 30-50 sq. metres per litre on timber and terrazzo. Pack Sizes Available: 5L & 20L

Application

- Surface should be clean, unpainted and free from oil, grease, dirt and flaking matter. Formwork oils must be removed. Sweep floor to remove dust and debris.
- If necessary, scrub floor clean with HF or other Agar detergent. To remove loose and flaking material, use a wire brush or high pressure water jet cleaner.
- Timber floors should be stripped free from wax and acrylic polishes. Terrazzo should be fully stripped and rinsed.
- Allow all new concrete to cure for at least 7 days before sealing (14 days in winter).
- On old concrete, remove all traces of mould, algae and fungi with BLEACH and rinse.
- Very smooth concrete may be etched with a dilute (5%) hydrochloric acid (Spirits of Salts) solution and rinsed thoroughly. This will produce better sealer penetration and bonding.
- Floors must be totally dry before applying FIRST BASE. This is **very important** to ensure good adhesion and clarity. If the floor is damp, the film may dry with a milky, hazy appearance. Also, the sealer may fail to bond properly to the floor.
- Apply FIRST BASE using a brush, short nap roller, paint pad or string mop. Give floor a generous coating, but avoid puddling. The porosity of the floor will determine the actual coverage rate. Try to avoid generating bubbles. If bubbles are left, they must be broken before the sealer dries by dragging a clean, soft brush or broom across the wet film.
- After the first coat is touch-dry, it must be left for a further 15 minutes before the next coat is laid.
- Apply 4 coats, leaving floor to stand for 1 hour to dry between coats. Floor must be tack free before recoating.
- Indoor floors may be further topcoated with 2 coats of TRAVERSO, 3D-GLOSS or 2020-GLOSS for extra protection and buffability.
- Allow to dry for 2-3 hours before allowing light traffic, or overnight (12-24 hours) before allowing heavy traffic to use the floor.
- Do not apply to very cold floors (10°C or less).
- Do not add water to this product.

Clean Up

Rinse applicators & mops in hot or cold water before the sealer dries out.

Maintenance

FIRST BASE is UV resistant but may show a slight decrease in gloss after 12 to 18 months exterior exposure. It should then be scrubbed, rinsed and recoated.

FIRST BASE may be recoated at any time, (after cleaning.)

FIRST BASE offers good resistance to petrol, oils and spillages.

Regular maintenance should include cleaning up such spills by mopping or scrubbing with NOVADET DETERGENT.

FIRST BASE is not buffable. Where a high gloss is desired, we recommend top-coating the floor with 3D-GLOSS floor finish and buffing regularly.

Agar Cleaning Systems maintains Material Safety Data Sheets (MSDS) on all of its products. These sheets contain information that you may need to protect your employees and customers against health or safety hazards associated with our product. Agar Cleaning Systems recommends that you obtain a copy of the respective MSDS sheet prior to using this product. The information in the Product Data Sheet is based on data we believe to be reliable. It is offered in good faith, but without guarantee, as conditions and methods of use of our product are beyond our control.

Joe Karten

From: Paul Agar [REDACTED]
Sent: Monday, 19 May 2008 9:26 AM
To: Joe Karten
Subject: VOC content calculations

Hello Joe,

We have calculated the VOC content of Super Nova and First Base as follows:

[Please note that Volatile Organic Compounds are defined as compounds based on carbon with a vapour pressure greater than 2mm Hg (0.27 kPa) at 25 degrees C.]

1. Super Nova:

Contains:	% in Super Nova	VOC % of material	VOC % in Super Nova	VOC g/L in Super Nova
[REDACTED]	50%	0.295%	0.1475	1.475
[REDACTED]	0.05%	15%	0.0075	0.075
Total				1.55 g/L

2. First Base:

Contains:	% in First Base	VOC % of material	VOC % in First Base	VOC g/L in First Base
[REDACTED]	36.37%	0.19%	0.069	0.69
[REDACTED]	1.59%	0.295%	0.0047	0.047
[REDACTED]	0.0767%	15%	0.0115	0.115
Total				0.85 g/L

All ingredients that contain VOC's are listed above. There are some other organic materials in these products, but they are not defined as volatile. Both products are water-based and contain more than 50% water.

Please contact us if you need further information.

Yours faithfully,
 Paul Agar
 Technical Director.

AGAR CLEANING SYSTEMS PTY LTD

Tel 61 3 9480 3000

Fax 61 3 9480 5100

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Consignment Note

Border Express Pty Ltd

IEQ-11: 4

ABN:

CN #: BE70042719				CN Date: 14/12/2007 Receiver's Copy										
From: Interface Aust Pty Ltd 14 Henry Street Picton, NSW 2571			To: FUTURE FLOOR SERVICE PEAKHURST UNIT 7 / 47-51 LORRAINE ST MUST RING PRIOR TO DEL Peakhurst, NSW 2210											
Contact: <input type="text"/>			Contact: MARC											
Phone: 0246778800		Ref: <input type="text"/>		Phone: 0418864346										
Freight Payable By: <input type="text" value="Interface Aust Pty Ltd"/>		Mode: <input type="radio"/> General <input checked="" type="radio"/> Express		<table style="width:100%; border: none;"> <tr> <td style="border: none;">Sender Disp:</td> <td style="border: none; text-align: center;">0</td> <td style="border: none; text-align: center;">0</td> </tr> <tr> <td style="border: none;">Receiver Rcvd</td> <td style="border: none; text-align: center;"><input type="text"/></td> <td style="border: none; text-align: center;"><input type="text"/></td> </tr> <tr> <td style="border: none;">Receiver Disp:</td> <td style="border: none; text-align: center;"><input type="text"/></td> <td style="border: none; text-align: center;"><input type="text"/></td> </tr> </table>		Sender Disp:	0	0	Receiver Rcvd	<input type="text"/>	<input type="text"/>	Receiver Disp:	<input type="text"/>	<input type="text"/>
Sender Disp:	0	0												
Receiver Rcvd	<input type="text"/>	<input type="text"/>												
Receiver Disp:	<input type="text"/>	<input type="text"/>												
Comments: NO DEL B4 12 NOON PLZ RING B4 DEL		Dangerous Goods UN #: <input type="text"/> Class Emerg Code: <input type="text"/>		<input type="checkbox"/> Pallets Transferred Direct										
Ref	# Units	Description	Weight	Cubic										
1103443	5	Pallet	3366.000 kg	5 @ 1.1 x 1.1 x 1.35 = 8.168 m3 = 2720 kg										
Total Units: <input type="text" value="5"/>		Total Weight: <input type="text" value="3366.000"/>		Total Cubic: <input type="text" value="8.168"/>										

FUTURE FLOOR SERVICES
UNIT 7/47-51 LORRAINE ST PEAKHURST
SYDNEY NSW
AUSTRALIA
Phone: 02 9584 3723 Fax: 02 9584 3724
ABN: 640 704 01106
Email: chris@futurefloors.com.au

28/2/2008

SCHIAVELLO PTY LTD

ATTENTION:
RE:

ADAM TERILL
GBCA
LEVEL 15 179 ELIZABETH ST


DEAR SIR,

THIS LETTER IS TO CONFIRM THAT THE SPECIFIED CARPET TILES
'INTERFACE' SOLID FOUNDATIONS HAVE BEEN SUPPLIED AND
INSTALLED TO THE MANUFACTURES RECCOMENDATIONS AND
SPECIFIC INSTRUCTIONS WITH PARTICULAR EMPHASIS ON THE
'TACTILE' METHOD OF INSTALLATION.

AS SPECIFIED THERE WERE NO OTHER ADHESIVES USED IN THE
INSTALLATION.

ALL MATERILAS LAID WERE AS PER THE COLOUR & DESIGN
SPCIFICATION AS SET OUT BY THE CLIENT AND INTERFACE.

REGARDS
FUTURE FLOOR SERVICES NSW


MARC KELLY



Consulting Enterprises in Technology

SCIENTIFIC CONSULTANTS IN RISK ASSESSMENT AND MANAGEMENT, PRODUCTS, PROCESSES, OH&S, ENVIRONMENT

Emission Test Certificate

Wednesday November 16th, 2005

Supplier: Interface Australia Pty Ltd (4 Henry Street, Picton NSW 2511)

Sample Description: GlasBacRE

Date Tested: November 2005

Test Method: Carpet & Rug Institute Green Label Plus test program incorporating
ASTM D5116-97 "Standard Guide for Small-Scale Environmental Chamber
Determinations of Organic Emissions from Indoor Material/Products".

Emission Data:

Carpet & Rug Institute Green Label Plus Specification	GlasBacRE
Total Volatile Organic Compound emission rate < 0.5 mg/m ² /hr (14 days)	The results for "GlassBacRE" can be considered representative of the whole range of solution dyed nylon modular carpet with GlasBac, GlasBacRE and System Six backing Total Volatile Organic Compound emission rate < 0.01 mg/m²/hr (14 days)
<p>"Chemicals of Concern":</p> <ul style="list-style-type: none"> Formaldehyde Acetaldehyde Benzene Caprolactam 2-Ethylhexanoic Acid 1-Methyl-2-Pyrrolidinone Naphthalene Nonanal Octanal 4-Phenylcyclohexene Styrene Toluene Vinyl Acetate 	<p>Emission Rate:</p> <ul style="list-style-type: none"> 0.001 mg/m²/hr 0.006 mg/m²/hr <0.002 mg/m²/hr <0.002 mg/m²/hr <0.007 mg/m²/hr <0.003 mg/m²/hr <0.002 mg/m²/hr <0.002 mg/m²/hr <0.002 mg/m²/hr <0.002 mg/m²/hr <0.002 mg/m²/hr 0.002 mg/m²/hr <0.002 mg/m²/hr <p>The "chemicals of concern" were present in the product to a very low extent and would pose insignificant health effect to building occupants when used in the typical manner.</p>

Dr. Vyt Garnys
PhD, BSc(Hons) AIMM, ARACI, ISIAQ, ACA, AIRAH, FMA
Managing Director and Principal Consultant

10 March 2008

Mr Adam Terrill
Schiavello Project Solutions

Fax: 03 9674 1666

RE: GBCA Green Star Evidence

Dear Adam,

This letter is to confirm that the installation & quantities of the following products on the Green Building Council Australia (GBCA) Project in Sydney:

- Tasman Taseal Low VOC Slab Seal- 20 Litres
- Alpine E0 MDF 1200mm x 2400mm x 18mm Board- 8 sheets

Please see attached delivery docket/ packing list for confirmation.

Should you have any further questions, please don't hesitate to give me a call.

Regards,



Gavin Lee
Sales Manager NSW/ACT
Tasman Access Floors Pty Ltd
0413 232 080

TASMAN.

ACCESS FLOORS

DELIVERY DOCKET / PACKING LIST

GREEN BUILDING COUNCIL

No. 23563

01 AUGST

DATE 11-12-07

L-15

PART COMPLETE

179 ELIZABETH ST

ACCOUNT No. 4192012

SYDNEY

JOB No. 8549

ORDER No.

PART / CODE No.	DESCRIPTION	QUANTITY
TC750VC	TASCOR UNIFY PANELS S/H	305
PBT190	PEDESTAL BASES	1020
UNH105	PEDESTAL HEADS - UNIFY	810
PH190100	PEDESTAL HEADS	210
GPTP-C	GASKETS	210
UNFH	WASHERS UNIFY	810
FOFH	FASTENERS UNIFY	810
DBL100	PANEL LIFTER BRACKET BLACK	1
TASCUH	PEDESTAL ADHESIVE	5
TASCAL	CONCRETE SEALER - 20 L	1
	ALPINE (10) MDF 2400x1200x18mm	8
BSB	BANDSAW BLADES 14TPI	5
	SURE DRIVES M6'S x 50	100
	MARTI JENSON	2 12 07

DESPATCHED
BYRECEIVED IN GOOD ORDER AND CONDITION
BY

MARKY

Joe Karten

From: Gavin Lee (TAF) [G.Lee@tasmanfloors.com.au]
Sent: Thursday, 8 May 2008 12:45 PM
To: Joe Karten
Subject: RE: TasGlu unit size
Attachments: image001.png; oledata.mso

Hi Joe,

Great to hear!

The Tasglu is a 5kg bucket and I confirm the Taseal is a 20L drum.

Not sure if anything has been done yet, but will GBCA be doing any editorials that we can be involved in?

Regards,

Gavin Lee
Sales Manager



Tasman Access Floors Pty Ltd
28 Biloela Street [PO Box 200]
VILLAWOOD NSW 2163 AUSTRALIA

T (02) 9728 4111
F (02) 9728 3088
M 0413 232 080
E g.lee@tasmanfloors.com.au
W www.tasmanaccessfloors.com.au

Tasman Access Floors is a Fletcher Building Company
www.fletcherbuilding.com

From: Joe Karten [mailto:Joe.Karten@gbca.org.au]
Sent: Wednesday, 7 May 2008 4:41 PM
To: Gavin Lee (TAF)
Subject: TasGlu unit size

Hi Gavin,

I have a quick question for you regarding TasGlu. I am putting together a Green Star submission for our office fitout. In compiling evidence, I came across an invoice for 5 units of TasGlu. Can you tell me the size (in litres) of a normal unit of TasGlu?

Can you also please confirm that Taseal comes in 20 litre containers?

We are really enjoying our raised floor and displacement ventilation here. Many thanks for Tasman's generous discount on the floor.

8/05/2008

Kind regards,
Joe

Joe Karten | Technical Coordinator | Green Building Council of Australia



GreenHouse Level 15, 179 Elizabeth Street, Sydney NSW 2000 | PO Box Q78 QVB NSW 1230
Phone +612 8252 8222 | **Fax** +612 8252 8223 |
Email joe.karten@gbcaus.org | **Website** www.gbcaus.org

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Message protected by MailGuard: e-mail anti-virus, anti-spam and content filtering.
<http://www.mailguard.com.au/mg>

20, CLEMENTS AVE, BANKSTOWN, 2200 NSW
PH – 02-9708 0633, FAX – 02 –9 793 9133

EASY REST PTY LTD

To: SCHIAVELLO PROJECT INTERIORS **From:** ALI MAHMOUD

Fax: 03 9674 1666 **Pages:** 1

Phone: 03 9674 1600 **Date:** 12-Apr-08

Re: GREEN BUILDING COUNCIL **ATTN:** ADAM TERILL

Urgent **For Review** **Please Comment** **Please Reply** **Please QUOTE**

ADAM,

In regards to joinery works to the above mentioned project, we certify as follows:

- **Recycled plywood used to the front of reception counter as specified.**
- **Qty of no more nails used on the project was 2 tubes.** The remainder of the tubes ordered, as per the suppliers invoice provided, are used and stored as stock in our factory premises in Bankstown.

If you have any questions or require any further documentation please do not hesitate to contact me.

Regards,

ALI MAHMOUD

Project Coordinator



NEW SOUTH WALES
QUEENSLAND
VICTORIA
SOUTH AUSTRALIA
WESTERN AUSTRALIA

11 Wilson Pk, Seven Hills 2147
791 Captain Cook East, Eagle Farm 4009
7 Kilsman Terrace, Gladstone 4746
3 Duncan Road, Dry Creek 3743
17 Ventnor St, Newdale 610

Tel: (02) 681 1200
Tel: (07) 333 9999
Tel: (03) 9507 7300
Tel: (08) 8139 7500
Tel: (08) 9333 2600

Fax: (02) 6811 3299
Fax: (07) 3333 2001
Fax: (03) 9507 7399
Fax: (08) 8139 7599
Fax: (04) 9388 2613

**BASF Construction
Chemicals Australia Pty Ltd**
Incorporated in N.S.W. A.B.N. 48 000 490 288

PICKING SLIP / DELIVERY DOCKET

FLOOR LEVELLING SPECIALISTS
1714 ARDENLEY ST WEST
AUBURN
NSW 2144

DELIVERY TO:

FLOOR LEVELLING SPECIALISTS
135 CASTLEREACH ST
SYDNEY
AUSTRALIA

Delivery Order No: 04701260
Sales Order No: 04001263
Customer PO: 10245
Delivery Date: 27/01/2008
Customer PO No: PETE STUART

1 PLT
1.5 T

IN CODE	DESCRIPTION	WHSE	BATCH	LOCATION	QTY ORDERED	QTY DELIVERED
12010080042	MASTERTOP P-15 BAG 20KG DEL REQUIRED TUESDAY 29/01/08. 8.00AM PLEASE. PETE 0437 398 822	2000		2147	72,000 BG	72,000 BG

TULS 6MM
RECEIVED
30/05/08
[Signature]

RECEIVING DETAILS		
DATE DISPATCHED	CUSTOMERS NAME & SIGNATURE	CARRIERS DETAILS & SIGNATURE
		<i>[Signature]</i>

Please Note: Customer MUST sign manually corrected delivery quantity.

Joe Karten

From: Anne Pilgrim [apilgrim@environments.com.au] on behalf of Valiant [Valiant@environments.com.au]
Sent: Wednesday, 23 July 2008 1:18 PM
To: Joe Karten
Subject: RE: Valiant Duct Sealer

Hi Joe,

A 4ltr container of our Duct Sealer weighs approx. 6.5 kg

Regards,

Anne Pilgrim

Office Administrator

Valiant Environmental Compounds Pty. Ltd.
Unit 15, 8-10 Barry Road, Chipping Norton NSW 2170
P.O. Box 648 Padstow NSW 2211
Phone: (02) 9792 5799 Fax: (02) 9792 6744
www.environments.com.au/valiant
apilgrim@environments.com.au

From: Joe Karten [mailto:Joe.Karten@gbca.org.au]
Sent: Wednesday, 23 July 2008 12:45 PM
To: Valiant
Subject: Valiant Duct Sealer

Hi there,

Can you please advise the weight of a 4 litre container of Valiant MR Duct Sealer?

Kind regards,
Joe



Joe Karten
Technical Coordinator
Green Building Council of Australia
Joe.Karten@gbca.org.au

Level 15, 179 Elizabeth St Sydney NSW 2000
Postal: PO Box Q78 QVB NSW 1230
Phone +612 8252 8222 | Fax +612 8252 8223

<http://www.gbca.org.au>

20, CLEMENTS AVE, BANKSTOWN, 2200 NSW
PH - 02-9708 0633, FAX - 02 -9 793 9133

EASY REST PTY LTD

To: SCHIAVELLO PROJECT INTERIORS **From:** ALI MAHMOUD
Fax: 03 9674 1666 **Pages:** 1
Phone: 03 9674 1600 **Date:** 1-Jul-08
Re: GREEN BUILDING COUNCIL **ATTN:** ADAM TERILL

Urgent **For Review** **Please Comment** **Please Reply** **Please QUOTE**

ADAM,

In regards to joinery works to the above mentioned project, we certify as follows:

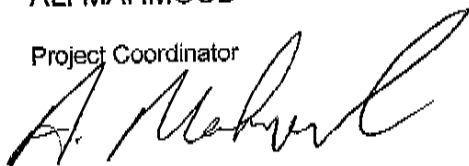
- Re-used plywood used to the front of reception counter as specified.
- Qty of no more nails used on the project was 2 tubes. The remainder of the tubes ordered, as per the suppliers invoice provided, are used and stored as stock in our factory premises in Bankstown.

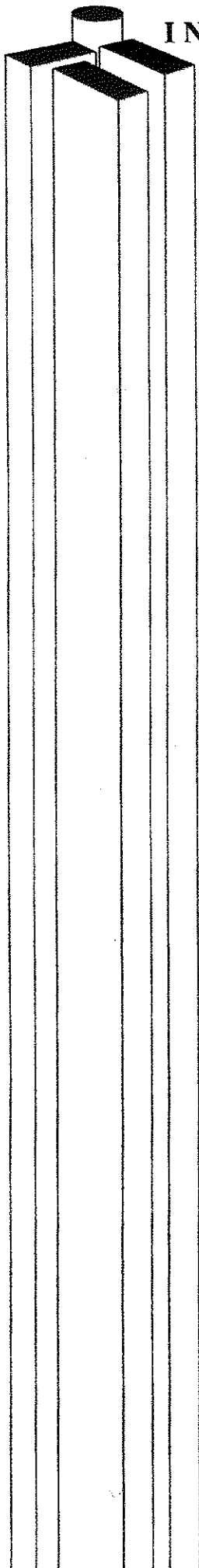
If you have any questions or require any further documentation please do not hesitate to contact me.

Regards,

ALI MAHMOUD

Project Coordinator





INTERIORS

FACSIMILE

TO: Green Building Council Australia

ATTENTION: Joe Karten / Adam Terrill

FAX NO: (02) 8252 8223 (03) 9674 1666

FROM: **Ray Allan**

DATE: 12.06.08

PAGES (including this page) 3

SUBJECT: Letters as requested

Joe,

Please find attached copies of letter for Floor Treatments and Insulation as requested.
Should you have any further queries in regards to the above matter please do not hesitate to contact the under signed

Regards

RAY ALLAN
Site Manager
Mobile: 0407 906 839
e-mail: ray@totalimage.com.au

IEQ-11: 8



Job Reference Number: #07666

Total Image Interiors Pty Ltd
abr: 91 125 277 689

11th June 2008

Green Building Council of Australia
Level 15
179 Elizabeth Street
SYDNEY NSW 2000

PO Box 6466
South Sydney BC
Alexandria NSW 2015
Ph: (02) 9700 7122
Fax: (02) 9700 7433
www.totalimage.com.au

Attention: Joe Kanten

Dear Joe

This letter confirms that Total Image Interiors sealed the exposed concrete floors using Mastertop levelling compounds, Agar First Base and Agar Supernova in January 2008.

Fee free to contact me with any questions you may have.

Yours sincerely

A handwritten signature in cursive script, appearing to read "Ray Allan".

RAY ALLAN
Site Manager



James L Williams Pty Ltd

Air Conditioning & Mechanical Services

ACN 004 122 650 ABN 17 004 122 650

23 July 2008

Joe Karten
Green Building Council of Australia
Level 15, 179 Elizabeth Street,
Sydney
NSW 2000

Dear Joe,

This letter confirms that the Valiant MR Duct Sealer supplied, was used as a duct sealant, in the GBCA fitout at Level 15, 179 Elizabeth Street during fitout works.

JL Williams purchases this sealant in bulk. Therefore, I cannot supply a docket showing the purchase of the exact amount used in the GBCA fitout. However, I confirm that one 4 litre container of Valiant MR Duct Sealer was used on the job.

Feel free to contact me with any further queries you may have.

Kind regards,

Paul Glekas
Project Manager B.E. SYDU (HONS)

James L. Williams Pty Ltd.

Unit 10/476 Gardeners Road, Alexandria NSW 2015 Ph: (02) 8338 5888 Fax: (02) 9313 5612



James L. Williams Pty
Limited
ACN 004 122 650

IMPORTANT: This fax may be confidential and private.
Unauthorised use is prohibited.
If you have it in error, please contact us and destroy this document.
Thank you.

VOC Declaration

The VOC content of the requested products are as follows:

<u>Code</u>	<u>Product</u>	<u>TVOC g/Ltr</u>
306479	TASGLU Pedestal Adhesive 5.2 kg	7.2

Reference Documents

VOC (Volatile Organic Compound) as defined under the Californian South Coast AQMD, Rule (Regulation) 1168 and Rule (Regulation) 102.

TVOC (Total Volatile Organic Compound) has been empirically calculated as defined under the Californian South Coast AQMD, Rule (Regulation) 1168.

Green Building Council of Australia, Technical Manual, IEQ-11 Volatile Organic Compounds



MARK CLISSOLD

Technical & Operations Manager

11th May, 2007



technical data sheet

NO MORE NAILS

General Purpose Construction Adhesive

PRODUCT

Bostik No More Nails is a multi purpose construction adhesive

DESCRIPTION

Bostik No More Nails general-purpose adhesive is suitable for interior or exterior general construction work. Being highly water resistant, styrene safe with high initial grab. It is a very versatile product.

No More Nails is a gunnable, synthetic rubber based adhesive which exhibits excellent green strength, flexibility, good temperature resistance and good slump resistance.

RECOMMENDED USES

- As a contact adhesive for installation of wall and floor panels.
- Most bonding applications where high strength, gap filling, one component adhesive is required.
- Timber, metal, cementitious and plaster sheets to timber or metal studs.
- Installation of battens or other fixings to brick, masonry or concrete walls.
- General-purpose construction adhesive.
- Suitable to use on foamed polystyrene.
- Ideal for mirror backed tiles.

FEATURES & BENEFITS

- Nail free general construction adhesive.
- High bond strength
- Excellent adhesion and sealing properties.
- Excellent green strength.
- Good temperature resistance.
- Chemical resistant.
- Good slump resistance.
- Bonds a variety of construction and building materials.
- Ideal for interior and exterior applications.
- Easy to use and cost effective.

PERFORMANCE PROPERTIES

Appearance	Thixotropic, heavy paste like consistency
Colour	Straw/beige
Odour	Light solvent smell
Viscosity	Approx. 110,000 cps @ 25°C
Solids content	Approx. 77%
Specific Gravity	1.16 g/cm ³
Flammability	Flammable – Flashpoint -20°C
Chemical Resistance	Very good
Service temperature	-30°C to +80°C
Working time (initial contact)	5-10 minutes, depending on temp.
Open time (reposition)	20 to 30 minutes depending on temp.

Maximum bond	12-72 hours depending on temp & thickness
--------------	---

Bostik No More Nails meets the specification of Australian Standard AS2329-80 (Mastic adhesives for fixing wallboards).

PACKAGING

No More Nails is available in 320gm (300ml) cartridges, 20 per box. 920gm (850ml) cartridges, 12 per box. Also 75gm blister tube, 12 units per case. A 20lt size is available upon request (**Bostik 1862**)

COVERAGE

10 lineal metres of 5mm bead from a 320gm cartridge.

APPLICATION INSTRUCTIONS

Bostik No More Nails can be applied either as a two-way contact or a one-way stick adhesive. In both cases the first requirement is that both surfaces to be bonded are clean and dry and free of grease, oil or dust. Any loose or flaking paint must be removed and lightly sanded before application. (Substrate surface temperatures should not exceed 30°C and the product should not be used where continued exposure to elevated temperatures will occur). To one of the freshly prepared surfaces apply a 4-6mm bead of adhesive with a cartridge or extrusion gun, or similar type profiles with a notched trowel. Beads should not be more than 45cm apart and butt joints should be adhered on both panel edges. Bring both surfaces together immediately.

Two-Way Method

Press firmly over entire surface to transfer adhesive and then pull both surfaces apart. Allow to tack-off for a few minutes (3-5 minutes depending on ambient weather conditions) and then reposition and press firmly together. Contact areas should then be tapped with a hammer via a padded block to ensure intimate contact.

Depending on the weather conditions and surfaces bonded, maximum bond strength will take from 12-72 hours to be reached. Some weighted panels may require temporary mechanical fastening that should be retained for at least this period.

One-Way Method

This method is recommended for heavier panels or those that are formed to place a loading or stressed memory on the bond line.

After applying adhesive and bringing substrates together, they should be sufficiently clamped, nailed or screwed in a fashion that maintains maximum surface contact at bonded interfaces. Mechanical fasteners should be retained if highly stressed; but temporary fastening can be released after a minimum of 24 hours.

For flooring applications, the adhesive should be applied to the flooring manufacturer's specifications. To stop floors squeaking, apply a bead of adhesive into the groove of each board after it is laid and immediately prior to mating the tongue from the next panel or board.

PRECAUTION

- Always test prior to bonding with this product.
- Plasticiser migration can occur with some PVC materials.
- Veneer plywood can be affected by solvent soaking through the ply causing bubbling of the veneer.

P.A.T.S (Pretested Adhesion To Substrate) Programme

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik adhesives with samples of building materials to which the adhesive will be applied. This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

HEALTH AND SAFETY

- If working in an area with poor ventilation or in a confined area, Bostik recommend a mask be worn.
- Avoid contact with skin, eyes and avoid breathing in vapour.
- If swallowed contact doctor or Poisons Information Australia. If skin contact occurs, wipe off excess and

remove contaminated clothing. Wash affected area thoroughly with soap and water.

- For more detailed information refer to Material Safety Data Sheet.

CLEAN-UP

Any wet or partially wet adhesive can be removed with scraping and **Bostik Solvent 9901**. Dried adhesive is best removed with a scraper or by sanding.

STORAGE/SHELF LIFE

Store in cool (below 25°C) dry area out of sunlight and in a well-ventilated area. Keep containers securely sealed. Store away from foodstuffs and incompatible materials. Dangerous Goods Class 3 must be transported in accordance with State regulations. A shelf life of a minimum of 12 months is expected if stored as above.

FIRE

Sealant and vapour are flammable when temperatures exceed flash point. Keep away from flames or source of ignition.

NO MORE NAILS

ITEM NO.	STOCK SIZE	Stock Size
149063	320gm cardboard cartridge	20 in a carton
215716	920gm cardboard cartridge	12 in a carton
240389	75gm Blister Tube	12 in a carton

BOSTIK 1862

ITEM NO.	STOCK SIZE
185655	Bostik 1862 20 lt

BOSTIK 9901 SOLVENT

ITEM NO.	STOCK SIZE
045152	Bostik 9901 20 lt

The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Findley Australia Pty Ltd be liable to anyone except for replacement of the products or refund of the purchase price.

ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF BOSTIK FINDLEY AUSTRALIA PTY LTD



BOSTIK FINDLEY AUSTRALIA PTY LTD
Phone: +61-3-9279 9333
Fax: +61-3-9279 9240

SYDNEY
Phone: 02 8825 3488
Fax: 02 8825 3411

BOSTIK FINDLEY NZ LIMITED
Phone: +64-4-567 5119
Fax: +64-4-567-5412

ADELAIDE
Phone: 08 8244 0511
Fax: 08 8244 0522

BOSTIK FINDLEY SINGAPORE PTE LTD
Phone: +65-863 4088
Fax: +65-863 4077

PERTH
Phone: 08 9331 7666
Fax: 08 9331 7677

BOSTIK FINDLEY (MALAYSIA) SDN BHD
Phone: +606 764 3246
Fax: +606 764 3248

BRISBANE
Phone: 07 3265 2377
Fax: 07 3265 5421

(ABN 79 003 893 838)

Product: No More Nails
Issue Date: February 2002
Issue No: 2
Division: Construction
Total Pages: 2



Invoiced To
 EASYREST PTY LTD
 20 CLEMENTS AVENUE
 BANKSTOWN NSW 2200
 HASHIM

Delivered To
 EASYREST PTY LTD
 20 CLEMENTS AVE
 BANKSTOWN NSW 2200

Invoiced From
 NOVER - EASTERN CREEK
 19 WONDERLAND DRIVE
 EASTERN CREEK NSW 2766

Phone No. 0297080633
 Fax No. 0297939133

Phone No. 1300 668 371
 Fax No. 1300 668 372

Your Acc. No E00085
Our SO No. SORD0409865
Your Order No. STOCK
Sales Contact Angelo Venditti -

Delivery Instructions

Item No.	Description		Qty Ordered	Qty Supplied	Back Ordered	Unit of Measure	Unit Price	Disc. %	Amount
520020	BOSTIK NO MORE NAILS 149063 320GM	205-9	100	100		EACH	4.17312	52.4	198.64
FR	Delivery Charge		1	1		EACH	12.00		12.00

Payment Terms: 30 Days from Statement Date

Total Excl. GST \$210.64
10% GST \$21.06
Invoice Total \$231.70

Material Safety Data Sheet



NON-Hazardous Substance, Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **Bostik No More Nails**

Synonyms:	Mancode
Bostik No More Nails, 75gm	240389
Bostik No More Nails, 320gm	149063
Bostik No More Nails, 920gm	215716
Bostik No More Nails Export, 320gm	267007

Recommended use: A solvent based, general purpose, gunnable construction adhesive.

Supplier: Bostik Australia Pty Ltd
ABN: 79 003 893 838
Street Address: 51-71 High Street
 Thomastown VIC 3074
 Australia
Telephone: +613 9279-9333
Facsimile: +613 9279-9342

Emergency telephone number: 1800 033 111

2. HAZARDS IDENTIFICATION

Based on available information, this material is not classified as hazardous according to criteria of NOHSC Australia.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

Class: 3 Flammable Liquid**Poisons Schedule (Aust):** Not applicable

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Naphtha (petroleum), hydrotreated heavy	64742-49-0	10-30%
Hydrocarbon solvent (containing hexane)	-	10-30%
Non-hazardous ingredients	-	Balance
		100%

4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

Material Safety Data Sheet



Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact: For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of soap and water. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek immediate medical assistance.

Notes to physician: Treat symptomatically. Delayed pulmonary oedema may result.

5. FIRE-FIGHTING MEASURES

Specific hazards: Flammable material. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Fire fighting further advice: If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

Hazchem Code: 3[Y]

Suitable extinguishing media: If material is involved in a fire use foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS

Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapours. Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

LARGE SPILLS

Shut off all possible sources of ignition. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. If contamination of sewers or waterways has occurred advise local emergency services.

Dangerous Goods – Initial Emergency Response Guide No: 14

7. HANDLING AND STORAGE

Handling: Avoid skin and eye contact and inhalation of vapour.

Material Safety Data Sheet



Storage: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Store away from sources of heat or ignition. Keep containers closed when not in use - check regularly for leaks.

This material is classified as a Dangerous Good Class 3 Flammable Liquid as per the criteria of the Australian Dangerous Goods Code and must be stored in accordance with the relevant regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC Australia).

However for:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
n-Hexane	50	176	-	-	-	-

As published by the National Occupational Health & Safety Commission (NOHSC Australia).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances [NOHSC: 1005 (1994)]" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.

When handling individual retail packs no personal protection equipment is required. Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. If risk of inhalation of exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

Material Safety Data Sheet

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form / Colour / Odour: Pale tan coloured guuable paste with solvent odour.

Solubility:	Insoluble in water
Specific Gravity (20 °C):	1.16
Relative Vapour Density (air=1):	N Av
Vapour Pressure (15 °C):	34.5 kPa (hydrocarbon solvent)
Flash Point (°C):	<0
Flammability Limits (%):	LEL – 1.0, UEL – 7.5 (hydrocarbon solvent)
Autoignition Temperature (°C):	N Av
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	> 47 (hydrocarbon solvent)
pH:	N App
Viscosity:	N Av

(Typical values only - consult specification sheet)
N Av = Not available N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is stable when stored and used as directed.

Conditions to avoid: Sources of ignition.

Incompatible Materials: Oxidising agents and acids.

Hazardous decomposition products: Oxides of carbon monoxide, light flammable hydrocarbons, smoke and fumes.

Hazardous reactions: No information available.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: Material may be irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Eye contact: May be an eye irritant.

Material Safety Data Sheet



Ingestion: Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is uncoordinated there is greater likelihood of vomit entering the lungs and causing subsequent complications.

Long Term Effects: No information available for product.

Acute toxicity / Chronic toxicity

No LD50 data available for the product.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No:	1133
Dangerous Goods Class:	3
Packing Group:	III
Hazchem Code:	3[Y]
Emergency Response Guide No:	14

Proper Shipping Name: ADHESIVE

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No:	1133
Dangerous Goods Class:	3
Packing Group:	III

Proper Shipping Name: ADHESIVE

Material Safety Data Sheet



AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 1133
Dangerous Goods Class: 3
Packing Group: III

Proper Shipping Name: ADHESIVE

15. REGULATORY INFORMATION

Poisons Schedule (Aust): Not applicable.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Literary reference

This Material Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd on behalf of its client.

Reason(s) For Issue: Change in Hazardous Substance Classification

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Bostik Findley Australia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.



6 Aug 2007

RE:- BOSTIK PRODUCT VOC DECLARATION

<u>Code</u>	<u>Product Name</u>	<u>VOC%</u>	<u>VOC g/Litre</u>	<u>Application</u>
247227	Seal'n'Flex FC - Grey	6.5	78	Joint Sealant
224200	Fireban 1	4.4	64	Joint sealant
Various	Seal'n'Flex 1	5.5	64	Joint Sealant
264229	Ultraseal Fillet Sealant	6.5	78	Fillet Sealant
263370	Moisture Seal	<1	6	Plant Rms, Paved Areas
Various	Roof & Gutter Silicone	<4	45	General
Various	Kitchen & Bathroom Silicone	<4	45	General Sanitary
260568	Ultraseal R 15Lt - Sandstone	17	187	Paved, Wet Areas
298255	Ultraseal R 15Lt - Grey	17	187	Paved, Wet Areas
Various	Ultraset Overlay Brown	4	44	Flooring
Various	Ultraset SF Brown	< 0.1	< 2	Flooring
Various	Ultraset Timber Floor Brown	6.1	80	Flooring
244295	Boscoseal P.U.	<20	200	Planter Box, Retain Wall
308692	Boscoseal AC2	0.2	<3	Plant Rooms
298476	Boscoseal AC 3	0.79	12	Paved & Wet Areas, Planters, Retaining
Walls				
Various	No More Nails	<25	287	Construction Adhesive
331686	Tuff as Nails	<25	287	Construction Adhesive
149055	Fill a Gap	<1	6	Gap filling
149055	Fire caulk	<1	6	Gap filling, Fire rated

THE ABOVE PRODUCTS HAVE BEEN TESTED FOR VOC USING THE FOLLOWING MEASURE:

Determining the % volatile component was achieved by reference to the empirical formulation of the Bostik product in most cases and/or determining % VOC by Bostik Quality Test Method BTM-N001 attached.

DEAN TOOHEY
Technical Manager R&D
Construction & Distribution

Bostik Australia Pty Ltd
A.B.N. 79 003 893 838
51-71 High Street (PO Box 50) Thomastown VIC 3074
Tel: +61 3 9279 9333 Fax: +61 3 9279 9270
www.bostik.com.au
A company of TOTAL

VOC Content Test Certificate

Friday July 13th, 2007

Manufacturer: BASF Construction Chemicals

11 Stanton Road

Seven Hills NSW 2147

Sample Description: Mastertop P15 self-leveling compound.

Date Tested: July 2007

Test Method: SCAQMD Method 304-91 Determination of Volatile Organic Compounds (VOC) in Various Materials as referenced by South Coast Air Quality Management Division (SCAQMD) Rule 1168.

Test Data:

Mastertop P15
13 grams of VOC per Litre



Dr. Vyt Garnys
PhD, BSc(Hons) AIMM, ARACI, ISIAQ
ACA, AIRAH, FMA
Managing Director and Principal Consultant

DUCT SEALERS VOC CONTENT

VALIANT ENVIRONMENTAL COMPOUNDS PTY. LTD.
ABN 87 105 878 555
UNIT 15/8-10 BARRY RD CHIPPING NORTON, N.S.W. 2170)
PHONE (02) 9792 5799 FAX (02) 9792 6744



1. PRODUCT – Standard and Fire Rated Duct Sealers

For the purposes of this certification these products are considered to be Architectural Sealants.

2. VOC INFORMATION

For the purposes of this certification VOC's are defined as:

Any volatile compound of carbon having an initial boiling point less than or equal to 250°C measured at a standard atmospheric pressure of 101.3 kPa excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbides, ammonium carbonate, and exempt compounds.

3. CERTIFICATION

On the basis of the above information we are able to certify that our duct sealants (Both fire rated and standard) have **VOC levels (without water and without exempt compounds) of approximately 120 g/litre** and an overall level of approximately 4.5%.

Our calculations have been carried out in accordance with the **South Coast Air Quality Management District Rule 1168 for testing methods and exempt compounds and the British Coatings Industry VOC Labelling Scheme.**

These products fit into the Low VOC content band of 0.3% to 7.99%

Signed,



Ross Warner
Technical Director
Valiant Environmental Compounds Pty. Ltd.
9th July 2007