

AgriQuality Limited  
 Huarangi  
 49 Mahana Road, Te Rapa  
 Hamilton  
 PO Box 10222 Te Rapa  
 Hamilton

Business Group: Proficiency-Plus Programmes  
 Phone: 64-(0) 7 849 9990  
 Fax: 64-(0) 7 849 4215  
 Email: < [hutchinsonb@agriquality.co.nz](mailto:hutchinsonb@agriquality.co.nz) >



2420/10/06 (replaces 23/02/04, 16/12/03), Ref h1540 (cross-ref n/a), Review 20/10/11, non-regulated

Holdfast NZ Ltd/Gorilla Adhesives Pty Ltd, Australia.  
 14 Avalon Drive, State Highway 1, Hamilton, NZ., P O Box 4206 Hamilton NZ.  
 Phone 64 (0) 7 847 5540, fax do 0324, Mobile 021 273 8894, email [sales@holdfast.co.nz](mailto:sales@holdfast.co.nz).  
 Web [www.holdfast.co.nz](http://www.holdfast.co.nz), [www.gorillagluue.co.nz](http://www.gorillagluue.co.nz)  
 Attention Troy Fell/ Stuart Humphrey NZ Industrial Manager.  
 cc Tony Rumney, N.Z.F.S.A, PO Box 2835 Wngtn (only if regulated farm det-san approval).

To whom it may concern,

**Holdfast Manufacturing Sealants listed are approved for levels of contact & use conditions listed ref #h1540**

Fix All 220LM, #20067, 20068, 20070, 20071, 20072, 20073	MS Polymer, int/ext	Cool room/food areas (near food)	approved	Animal Prods Act, AgriQuality approval system procedures
Bison CR, #19313 & #20187	Silicone int/ext	Cool room/food areas (near food)	approved	Animal Prods Act, AgriQuality approval system procedures
Forever White #19944	Sealant int/ext, bedding panels	Cool room/food areas (food contact cert quoted)	approved	Animal Prods Act, AgriQuality approval system procedures , "Inesco, & FDA177.2600 clearances".
Bison NS, #20062, 20077, 19313, 20187	Non-setting mastic for bedding panels	Cool room/food areas (food remote)	approved	Animal Prods Act, AgriQuality approval system procedures
Firestop silicone 111 grey	Silicone int/ext	Cool room/food areas (food remote)	approved	Animal Prods Act, AgriQuality approval system procedures
Carbond 940FC #20054, 20055, 20082, 20064, 20066, 20069	Polyurethane floor jointing	Cool room/food areas (food remote)	approved	Animal Prods Act, AgriQuality approval system procedures
Carbond 40FC #20054, 20055, 20082, 20064, 20066, 20069	Polyurethane floor jointing	Cool room/food areas (food remote)	approved	Animal Prods Act, AgriQuality approval system procedures
Armaflex SL50, #42710	Polyurethane floor jointing	Cool room/food areas (food remote)	approved	Animal Prods Act, AgriQuality approval system procedures
Armaflex SL70	Polyurethane floor jointing	Cool room/food areas (food remote)	approved	Animal Prods Act, AgriQuality approval system procedures

**Conditions:**

- General conditions: for use according to instructions (data sheet, msds, & "sealing in coolstores"), good practice to avoid taint etc for permitted uses.
- Special conditions: for tabulated contact/near/remote-from food, & diluted CIP per instructions & resistance.
- Approval conditions: Subject to notification of change, review within 5 years, inclusion of the approval statement in instructions, and activation by (counter)signing.

Administration detail:

- \*AgriQuality NZ Ltd is an SOE (do not state MAF) ex MAF QM, & evaluator for regulated farm detergent approval.
- \*\*AgriQuality approval/QA link is a non-regulated, voluntary, and evidential certification by the supplier, independently confirmed without prejudice or guarantee, against checklist standards for food safety as shown in the assessment attached for your verification. The standards are expected to be acceptable in relation to standards for international trade including Codes of Practice, and Product Safety Programmes eg pursuant to Dairy Industry Regulations 1990. In the case of farm dairy detergents and sanitisers this is also a recommendation for specifically regulated and worded "MAF approved for farm dairies".
- **The purpose of this work is to ensure that items used according to instructions perform without compromising food safety, and to protect it when this is part of their function, (and they should not have other apparent adverse effects for production).**
- Compliance is decided according to the contents list, assessment report, references and submissions list with actual submissions in a separate appendix for supplier confidentiality protected by legislation.
- \*\*\*Other standards met/used (user confirm): Dairy Regs 1990 Animal Prods Act. Quality Manual -approval System Procedure, and non-standard testing against microorganism growth. Forever white has unsighted "IKI approval for disinfection & barrier against organisms. FDA.2600 (e&f) repeat use rubber aqueous & fatty foods extractions test by lanesco of France. Otherwise **information sheets, msds, hygiene application instructions, and lab check re fungal growth & to be hard and impermeable.**

AgriQuality NZ Ltd.....  
 Signed on original & file

Date:..20/10/06.....

Supplier:.....

Date:.....

## Contents.

0 Information is to be evidential (std 0).	1 Standards applicable
2 Hazard approval checklist	3 Information submitted
4 Hygiene instruction sheet.	5 Product & hygiene msds summary
6 Fungi resistance test results.	The above is a materials variation of format

## Risk Rating (failure/accident)

	Chemical	Microbiological
Incidence	Low –high depending on usage	Low –high depending on usage
Susceptibility	Low –high depending on usage	Low –high depending on usage
Severity	Low –high depending on usage	Low –high depending on usage
Total	Low –high ("Forever white FDA compliance for contact")	Low –high (refer to mould growth tests or "IKI clearance" in the case of Forever White.

## Standards applicable to surface coatings

### 1 Standards ex technical detail in previous COPs:

1. Monitor and advise any unsatisfactory performance
2. Toxicity: does not release toxic material under finished use conditions.
3. Cleanability to be:
  - a. Able to be adequately cleaned by normal procedures (for that area of the premises) without damage to the surface.
  - b. Free from cracks, crevices and have no soil collection areas.
  - c. And regular cleaning and sanitising.
4. Resistance
  - a. Resistant to water and water vapour
  - b. Resistant (inc sheet wallboard jointers) with a low rate of moisture movement.
  - c. Resistant to foods eg milk, cream, milk fat, whey, lactic acid, etc
  - d. Resistant to chemicals (to 10% Sodium hydroxide, nitric acid, phosphoric acid, sulphuric acid, iodophors, QAC, etc).
  - e. Durability to (chipping, flaking, or delamination. (Normal) heat and water, Machinery vibration. Resistant to impact, to thermal shock etc (including jointers to NZDRI criteria +/- 5mm or if climate controlled +/- 2mm).
  - f. Accounting for combinations of dry/wet, hot/cold, and severe conditions.

Status: the spec and instructions appear to comply with the standard above.

### 2 Standards ex approval HACCP checklist:

- 0 Information to be evidential (std 0). This is evidential according to data & registrations supplied.
1. *Materials safety and residues etc*
  2. *Material (other - functional etc, std 2):*
  3. *Quality assurance certification:* is n/a for this level of contact.
  4. *Purity (or Design, formulation, fabrication and finish):* is per applicator instructions in product and food industry instructions sighted. (includes level of resistance to fungi).
  5. *Instructions:* Instructions supplied appear sufficient per section 4 above and below.
  6. *Freedom from apparent side effects:* has warning and appropriate tech information/clearances (CIP dilute not conc).
  7. *Efficacy/hygiene to food safety standards with safety margins (std 7:* is expected from technical information above.
  8. *Packaging safety:* N/a for this application.

## Information found

Name	Type	Colour	Data sheet	Msd s	Branz report	MVT test	Use	Micro growth
FIX ALL 20LM # 20067, 20068, 20071, 20072, 20073	Ms polymer, int/ext	Titqnia	Yes	Yes	yes	yes	Int/exterior	Minor mould growth (no practical concern) (approve food -close)
BISON CR #19313, 20187	Silicone, int/ext,	Titania	Yes	Yes	no		Joint sealer	Clear of growth approve food close
Forever while			Yes	no				N/a "IKI approval for disinfection & barrier against organisms. FDA.2600(e&f repeat use rubber aqueous & fatty foods extractions test by lanesco"
BISON NS #20062, 20077, 19313, 20187	Non- setting mastic for bedding panels	White	Yes	Yes	no	no	Bedding	N/a for micro (food- areas & remote from food)
FIRESTOP SILICONE 111 grey	Silicone, int/ext,	Titania	Yes	Yes	no	no	Fine joints	N/a for micro (food areas & remote)
CARBOND 940 FC #20054, 20055, 20082, 20064, 20066, 20069	Poly- urethane floor jointing	Grey	Yes	Yes	no	no	Non cont floor joints	N/a for micro (food areas & remote)
CARBOND 40 FC #20054, 20055, 20082, 20064, 20066, 20069	Poly- urethane floor jointing	Grey	Yes	Yes	No	no	Non cont floor joints	N/a for micro (food areas & remote)
ARMAFLEX SL50 #42710	Poly- urethane floor jointing	Grey	Yes	Yes	No	no	Non cont floor joints	N/a for micro (food areas and remote)
ARMAFLEX SL70 #	Poly- urethane floor jointing	Grey	Yes	Yes	No	no	Non cont floor joints	N/a for micro (food areas and remote)

## Hygienic sealing process of Holdfast Sealants in the Coolstore Industry

- Surface preparation: ensure surfaces are clean, dry, & free of dust, grease, oil and wax. Ensure protective films are removed. Holdfast Bulldog Powdercoat Cleaner or Holdfast Surface Activator may be necessary to clean greasy, oily or waxy non-porous surfaces.
- Application method: apply sealant to joint. Using a smoothing tool or spatula, tool sealant into joint ensuring full contact with both sides of the joint.
- Maintenance and Hygiene Procedures: use a standard cleaning programme. For difficult areas a film of residual sanitiser may be used.
- Guideline for sealant use
- Fix All 220 LM. This is an MS polymer suitable for exterior and interior sealing. It is hygienic for close proximity to food and hygiene areas.
- Bison CR. This is a silicone-based sealant suitable for exterior and interior sealing. It is hygienic for close proximity to food and hygiene areas.
- Bison NS. This is a non-setting mastic designed for bedding panels to concrete and interlocking panels. It is designed for food areas, & food remote.
- Firesil. This is a silicone based fire-rated sealant suitable for sealing exterior and interior joints to prevent the spread of fire and smoke. It is designed for food areas & food remote.
- Carbobond 940FC, Carbobond 40CF, Armaflex SL50, Armaflex SL70 -These are polyurethane based sealants for sealing floor joints where a durable seal is required. They are designed for food areas & food remote.

## Individual Product data sheets msds and status Cool-room/Food areas (near food).

### **Fix All 220 LM MS**

1. Data sheet (BRANZ appraisal cert no 419 2001- lists
2. Product description: Fix All 220 LM is a high performance joint sealer with high adhesive strength. It is based on a hybrid polymer, chemically neutral and fully elastic. For use as a glazing sealant, frame perimeter seal and for other critical joints in construction, automotive, marine and aerospace areas where a tough durable seal is required.
3. Lists sections on product description, characteristics, application examples, colours, packaging, shelf-life, technical data, chemical resistance, joint design, instructions for use, transport information, safety measures and paintability.
4. MSDS includes: ditto product description, Identification (preparation of hybrid polymers fillers and additives), Hazardous ingredients (Xylene CAS1330-20-7 1-5% R phrase 10-20/21-38. MDI 101-68-8 0.25% R 10-36/37/38-42, DBTL CAS77-58-7, 0.05% R20/22-36), Hazards, Physical description/properties, First aid, Personal protection, Safe handling, Accidental release, Stability and reactivity, Toxicology (none available), Ecological (none available), Disposal, Transport, Regulatory, and Other.
5. Critical points vs standard: temperature resistance:-40 to +90C and other elasticity, shrinkage etc data appears suitable. Chemical resistance Good (water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis, Poor (aromatic solvents, concentrated acids, & chlorinated hydrocarbons).
6. Question of whether fungi growth is problematic : probably not (Small amount of mould growth evident on sealant).
7. Status appears to suit cool-room/food areas & may be close to food.

### **Bison CR**

1. Data sheet has similar listing plus description (is a high-quality neutral, elastic, one-component joint sealant based on silicone).
2. Lists: description, characteristics, applications, technical data, surfaces, application, safety, remarks, standards/approvals (list stated includes butter taint test), packaging and colours, shelf life.
3. Bison CR MSDS has listing similar to above plus butyl rubber, joints that will be exposed to low movement in cooling industry etc.
4. Critical points vs standard: temperature resistance: -40 to +150C and non-shrinkage etc other non-shrinkage etc appears suitable. Has standards listing inc a butter taint check but other standards are unclear to us. Chemical resistance (not found - Stuart please advise).
5. Fungal growth: nil.
6. Status appears to suit cool-room/food areas & may be close to food.

### **Forever White/Soudal Silirub Cleanroom**

1. Data sheet has similar listing plus description (is a high-quality neutral, flexible, low modulus silicone sealant. Contains Bethogard technology from Janssen Pharmaceutica. Lists: description, characteristics, applications, technical data, applications, packaging, shelf life, surfaces, joint size, application, health and safety consult label, tests and certifications (AgriQuality approved.., "IKI approval for disinfection & barrier against organisms. FDA.2600 (e, f) etc" remarks. " safety, remarks, standards/approvals (list stated includes butter taint test), packaging and colours, shelf life.
2. MSDS unfound – refers to label.
3. Critical points vs standard: temperature resistance: states food hygiene to refrigeration application. Has standards listing inc IKI & FDA tests. Chemical resistance not found.
4. Fungal growth: expect control according to quoted IKI disinfection and micro barrier.
5. Status: not sighted/tested but IKI and FDA 2600 claimed standards compliance is complete cover for coolroom/food areas & may be close to food.

### **Bison NS**

1. Data sheet: has similar listing plus description (durable plastic elastic sealant based on butyl rubber – for bedding panels & iron for joints with low movement in building, cooling industry, auto & air conditioning - not recommended for locations subject to continuous water immersion, not PE, PP, Teflon and bituminous surfaces). Lists description, characteristics, applications, examples/examples, packaging and colours, shelf life, technical data, surfaces, state of surface, preparation, joint size, application, safety, & remarks.

- MSDS has listing similar to above plus description, identification, hazardous ingredients, physical description and properties, first aid, general protection & hygiene, handling (away from food stuffs), storage, extinguishing media, accidental release, stability & reactivity, hazardous reactions, tox info, eco info, disposal, transport, regulatory and other.
- Question of whether fungi growth is problematic: n/a for food-remote.
- Critical Points vs standard: temperature resistance –20 to +75C, and specifies for low movement and chemical resistance is not applicable (underneath/behind).
- Status suits food areas, food-remote.

#### **Firestop silicone 111 grey (copied across from Firesil)**

- Data sheet: description (one component, low modulus, silicone sealant for sealing fire-retardant joints), characteristics, applications, application examples, packaging and colours, shelf life, technical data, surfaces, substrates, state of surface, preparation, joint size, application, safety measures, remarks, and standards/approvals and regulatory (not all understood by us).
- Msds: description, identification, physical description/properties, first aid, safety & handling, storage, extinguishing media, accidental release, stability and reactivity, hazards, tox information, eco information, disposal, regulatory, transport and other information.
- Question of whether fungi growth is problematic: n/a for food-remote.
- Critical Points vs standard: temperature resistance (suppose very resistant) and tolerance for gap movement etc and chemical resistance is not found (likely n/a).
- Status suits food areas, food-remote.

#### **Carbobond 940FC/Soudaflex 940FC**

- Data sheet – name, description (high quality one component sealant based on polyurethane), characteristics, applications/examples, application examples, packaging and colours, shelf life, technical data (inc temperature resistance –30 to +90C and elongation and elasticity etc), surfaces, joint size, application, transport, safety, remarks, standards/approvals.
- Msds: name, description, identification, hazardous ingredient, hazards, physical description/properties, first aid, safety and handling, storage, extinguishing media, recommendations, accidental release, stability and reactivity, hazardous reactions, tox information none, ecotox information none, disposal, transport, regulatory contacts.
- Question of whether fungi growth is problematic: n/a for food-remote.
- Critical Points vs standard: temperature resistance, shrink resistance & flex found, and chemical resistance (cleaning use-solution/other/some solvents).
- Status suits food areas, food-remote.

#### **Armaflex SL50**

- Data sheet – name, description (one component, high modulus self-leveling sealant based on polyurethane), lists properties (abrasion, water, acid, and petroleum resistant and bubble-free curing), application, tech data (temp resistance –40 to +90C with shrinkage and joint movement information), direction, substrates, pre-treatment, cleaning, shelf life, colours, packaging, limitations (Chlorine, joints to 15 mm, avoid silicone, and alcohol/solvent cleaners during cure).
- Msds: name, description (self-leveling flowing polyurethane sealant), identification, hazardous goods, physical description, first aid, personal protection and handling, storage, extinguishing media, accidental release, exposure limits, stability and reactivity, hazardous reactions, tox information, aquatic tox information, disposal, transport and regulatory and other information.
- Question of whether fungi growth is problematic : n/a for food remote.
- Critical Points vs standard: temperature resistance, shrink resistance, flex and chemical resistance is found – except for alkali.
- Status suits food areas, food-remote.

#### **Armaflex SL70**

- Data sheet – product (one component, self leveling flowing sealant based on polyurethane), lists properties (primer-less adhesion, fast curing, resistant to water, UV, Corrosive environments, ozone, acids and petroleum), application, technical data (temperature resistance –30 to +90C, shrinkage and movement accommodation), directions, substrates, pretreatment, shelf life, safety, colours, & packaging.

- MSDS: name description, identification, hazardous ingredients, physical properties, first aid, personal protection & handling, storage, extinguishing media, accidental release, exposure limits, stability & reactivity, hazardous reactions none, tox information per experience, exo information none, disposal, transport, regulatory, and other information.
- Question of whether fungi growth is problematic : n/a for food-remote.
- Critical Points vs standard: temperature resistance, shrink resistance, flex and chemical resistance is found – except for alkali.
- Status suits food areas, food remote.

## Confidential appendix - fungi resistance - test results

### Table of Contents

#### Introduction

A range of sealants on metal plates were provided for evaluation of mould adherence/invasion after a sanitation process, designed to simulate conditions experienced in the food manufacturing/processing industries.

#### Outline

Sealants will be exposed to an actively growing mould culture in a liquid form (broth) for an extended period of time. This will allow the mould to begin to form hyphae and where possible, begin invasion of the sealant as part of the growth process.

The sealants will then be removed from the broth, rinsed with sterile water, followed by a sanitiser, and then rinsed well again with water.

The sealants will then be placed into a second set of sterile petri dishes and a solid medium (containing agar) designed to support mould growth will be added to ascertain whether moulds had remained attached to the sealants through the treatment process. Growth will be ascertained visually.

#### Methods and Materials

Test organism:

*Penicillium chrysogenum* - A New Zealand National Reference strain. An inoculum was prepared by removing large numbers of spores from a seeded plate and suspending them in Sabouraud dextrose broth to achieve a uniform suspension.

Members of the genus *Penicillium* are filamentous fungi. *Penicillium* species are widespread in the environment and are found in soil, decaying vegetation, and the air. They are common contaminants in the food-processing environment where sufficient procedures are required to limit their proliferation and subsequent contamination of product.

Broth:

Sabouraud dextrose broth (SDB) is a liquid medium designed specifically for the growth of fungi, including environmental mould species.

Agar: Dichloran Rose Bengal Chloramphenicol agar (DRBCA) is a solid medium designed specifically for the growth of fungi, including environmental mould species.

Incubator: Set at 25°C +/- 0.5°C.

Sanitiser: Virkon® - freshly prepared to a 1% working solution, and left for 15 minutes to stabilise.

#### Procedure

##### Day 1

Sealants on metal plates were placed into sterile petri dishes. An inoculum of *Penicillium chrysogenum* in Sabouraud Dextrose Broth (SDB) was added to the petri dish to a depth where the sealant was entirely covered.

The petri dishes were placed into an incubator running at 25°C for a total of 7 days.

##### Day 7

Sealants on metal plates were aseptically removed from the broth using tweezers. Both sides of the plates were washed with sterile deionised water. Plates were then immersed into a 1% Virkon solution for 1 minute. After this sanitation step, plates were removed and again well rinsed with sterile deionised water.

They were then placed into a second set of sterile petri dishes. Molten DRBCA agar was poured into the petri dishes ensuring that the sealants were fully covered, and incubated at 25°C for 5 days.

## Results

### Stage 1: Broth

Sample	Observations after 7 days growth in Sabouraud Dextrose broth at 25°C*
A Fix All 20LM	White mould growth around edge of petri dish, - broth is thick and turbid with other growth.
B Bison CR	White growth of mould over entire surface – broth is clear and bright yellow in appearance.
C “other”	Small amount of mould on the outside edge of the petri dish – broth is very thick and turbid with other growth.
D “other”	Small amount of mould on the outside edge of the petri dish – broth is very thick and turbid with other growth.
E “other”	Large amount of mould on the outside edge of the petri dish – broth is very thick and turbid with other growth.
F “other”	Small amount of mould growth on the outside edge of the petri dish – broth is clear.
G “other”	Small amount of mould on the outside edge of the petri dish – broth is very thick and turbid with other growth.
H “other”	No mould growth – broth is very thick and turbid with other growth.
I “other”	Growth of mould over entire plate and sealant – broth is turbid with other growth.
J “other “	Large amount of mould growth over entire plate and sealant – broth is only slightly turbid with other growth.
K “other”	Small amount of mould growth around edge of sealant – broth is turbid with other growth.

Controls	
SDB-blank	No growth.
<i>P. chrysogenum</i>	Yellow-white mould growth within broth.

### Stage 2: Agar

Sample	Observations after 5 days growth in Dichloran Rose Bengal Chloramphenicol Agar at 25°C*
A	No growth
B	Pink yeasts or bacteria on surface of gel. Mould growth was evident around the entire perimeter of the sealant.
C	Very small amount of pink yeasts or bacteria on the sealant.
D	Very small amount of pink yeasts or bacteria on the sealant.
E	Mould growth over entire surface of sealant.
F	Small amount of mould growth evident on sealant.
G	No growth.
H	Only one yeast colony present.
I	Mould growth over entire surface of sealant.
J	Mould growth over entire surface of sealant. There were actually two mould species present – one was from the inoculum, and the second appeared to have been present in the sealant itself.
K	No growth.

Controls	
DRBCA -blank	No growth.
<i>P. chrysogenum</i>	Yellow-white moulds with extensive blue spores.

\* Growth was defined as the appearance of moulds either on, or directly above the sealant.

## Discussion

### Stage 1: Broth

There were significant differences between the various broths containing sealants at this stage of the assessment. It would appear that some of the sealants had an inhibitory effect on the growth of this mould species (C, D, F, G, H and K). Other growth evident ascertained by turbidity of the broth was most likely due to other organisms present on the sealant and/or plate on delivery.

### Stage 2: Agar

Considerable differences between the appearance of growth on the various sealants was evident.

Results ranged from no growth on some sealants (A, G and K), to confluent growth on others (E, I and J). On some sealants, there appeared to be other organisms present, indicating that they were most likely already present on the sealants on delivery (B, C, D and H). Confluent growth on some sealants would indicate that there was some level of adherence/invasion of the sealant by this mould species.

Stuart took digital photographs of the sealants for reference.

Product details supplied by Holdfast: refer to Troy Fell/Stuart Humphrey.

AgriQuality Limited  
Huarangi  
49 Mahana Road, Te Rapa  
Hamilton  
PO Box 10222 Te Rapa  
Hamilton

Business Group: Proficiency-Plus Programmes  
Phone: 64-(0) 7 849 9990  
Fax: 64-(0) 7 849 4215  
Email: < [hutchinsonb@agriquality.co.nz](mailto:hutchinsonb@agriquality.co.nz) >



2420/10/06 (replaces 23/02/04, 16/12/03), Ref h1540 (cross-ref n/a), Review 20/10/11, non-regulated

Holdfast NZ Ltd/Gorilla Adhesives Pty Ltd, Australia.  
14 Avalon Drive, State Highway 1, Hamilton, NZ., P O Box 4206 Hamilton NZ.  
Phone 64 (0) 7 847 5540, fax do 0324, Mobile 021 273 8894, email [sales@holdfast.co.nz](mailto:sales@holdfast.co.nz).  
Web [www.holdfast.co.nz](http://www.holdfast.co.nz), [www.gorillagluue.co.nz](http://www.gorillagluue.co.nz)  
Attention Troy Fell/ Stuart Humphrey NZ Industrial Manager.  
cc Tony Rumney, N.Z.F.S.A, PO Box 2835 Wngtn (only if regulated farm det-san approval).

Dear Troy Fell/Stuart Humphrey,

Please find attached your approval report:

**Holdfast Manufacturing Sealants listed are approved for levels of contact & use conditions listed ref #h1540**

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- Special conditions: for tabulated contact/near/remote-from food, & diluted CIP per instructions & resistance.
- Approval conditions: Subject to notification of change, review within 5 years, inclusion of the approval statement in instructions, and activation by (counter)signing.

The cost to this was \$200 + GST (against \$100 expected because Forever White provided some significant change) and I hope this is as you were wanting or please let us know.

AgriQuality NZ Ltd.....  
Signed on original & file & address/security completed

Date: 20/10/06.....