

02/03/2016 H3611

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Contacts Rob Roxburgh GM rob@equus.co.nz

To whom it may concern,

**Equus Standard architectural specifications for dairy factories are listed**

Type I3 Dry Process Rooms

- 1st coat Coverall Pre-Sealer
- 2nd coat Coverall Primer
- 3rd coat Coverall Heavy Bodycoat
- 4th coat Colourglaze Topcoat

Type I3 Interior Precast Concrete Panel Wet Areas (Epoxy)

- 1st coat Epistixx Sealer
- 2nd coat Epistixx Rapid Topcoat
- 3rd coat Epistixx Rapid Topcoat
- 4th coat Epistixx Rapid Topcoat

Type I7 Concrete Floors Painted - In the CIP/ Hygiene Process Areas - include non-slip option as necessary

- 1st coat Epistixx Sealer
- 2nd coat Epistixx NS Body coat or Rapid Topcoat
- 3rd coat Epistixx Rapid Topcoat
- 4th coat Epistixx Rapid Topcoat

Type I8 Concrete Floors Painted - In the CIP/ Hygiene Process Areas - with medium to heavy traffic

- 1st coat Epistixx Sealer
- 2nd coat Epistixx Rapid Topcoat
- 3rd coat Epistixx Rapid Topcoat

Type I10 Exposed Structural Steelwork, undersides of steel decks, mild steel handrails for CIP or Hygiene Process Areas. Concrete Floors Painted - In the CIP/ Hygiene Process Areas - with medium to heavy traffic

- 1st coat Protexx Zincure
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2

Type I 11 Exposed mild steel floors, decks and stair treads - includes slip resistant option. This system is suitable for CIP or Hygiene Process Areas.

- 1st coat Protexx Zincure
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2
- 4th Coat Colour Cure 2

Type I13 Painted Galvanised Steelwork & Handrails. This system is suitable for CIP or Hygiene Process Areas.

- 1st coat Protexx Zincure
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2

Solid Core Timber Doors

- 1st coat Epistixx Primer
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2

**Equus Standard architectural specifications for dairy factories fulfill requirements:**

- Product description: interior paint systems
- Product use: food & related clean processing areas per ISO 14644 clean room classifications & related technical considerations.

**"Passed AsureQuality assessment for food/beverage/dairy factory food areas - clean rooms appropriate to surface cleanliness classification values listed here H3611" with conditions.** This assessment was prepared by Global Proficiency Ltd using HACCP principles to determine equivalence with food standards listed below. See <http://assessedproducts.asurequality.com/>. This supports food Risk Management Programmes & other endorsements that may apply to this product include MPI regulated farm dairy approval, MPI dairy factory endorsement, MPI regulated non-dairy animal product approvals, EPA HSNO-OSH-environment approval (& previously AQIS).

**Conditions:**

- For food area clean rooms to appropriate clean room classifications (refer ISO 14644 Clean Rooms & associated controlled environments - Part 9 Classification of surface cleanliness by particles concentration ISO 9012).
- The product is to be used according to Manufacturer's Instructions, Good Manufacturing Practice (GMP), and applicable legislation.
- The assessment is subject to notification of change (e.g. in formulation, raw materials or instructions) and expires on 02/03/2021).
- The full report is attached for supplier review and verification. The assessment is activated by countersigning.

Prepared by Global Proficiency for AsureQuality Ltd...



Supplier:..... Date:.....

**Scope and purpose of the assessment:**

- Asurequality assessment is a non-regulated, voluntary, and evidential certification by the supplier demonstrating equivalence with food safety standards, and also that product instructions address hazards for staff & equipment. The assessment is independently confirmed, without prejudice or guarantee, using information submitted by the supplier or from other sources. Confidentiality of the product formulation is maintained using coded material identifiers in the report, and appendices containing confidential information are provided only to the supplier.
- Scope: NZ checks (FSANZ, US FDA 21 CFR/ NSF, Food Chemicals Codex, EPA NZ, EU, French culinary listings or related data for equivalent safety). NZ background (Animal Products Act, Risk Management Programmes. Detergent & Sanitiser Manufacturer's Code of Practice, Detergent & Sanitiser Standards and Analytical Methods. Quality Manual - Assessment Procedures

**Summary of assessment with risks highlighted:**

- The Architectural Specification selects paint systems and methods for specific applications and in this case the focus is on suitability of coatings for clean rooms.
- At the same time the TDS & MSDS for systems were sighted to ensure no other concerns. The TDS with chemical resistance and micro resistance (and in some cases this was not sighted please add a comment to complete this). We also sighted the MSDS with any hazardous substances listed and we commented where these may be rendered safe by incorporation in polymers or after evaporation during curing - but otherwise we did no comment on VOC status).
- Top coats were tested to ISO 14644-9 Classification of surfaces by particle concentration. Test panels supplied were pre-washed and then a clean rinse was independently taken & tested for distribution of particles to lie inside class limits from few small particles to no large particles. The test laboratory was Setsco Services Ltd, Singapore. In addition to classifying size distribution class the laboratory also checked large particle composition by SEM-EDX. The laboratory test method was described by the test laboratory w/o ISO reference etc.).

**Contents (This is a simplified report with sections 2-11 replaced by a summary on p1 and in the table in section 1)**

0 Information is to be evidential (std 0).	1 Materials safety and residues etc
2 Material (other – function)	3 Quality assurance certificate
4 Purity (or Design, formulation, fabrication and finish).	5 Instructions
6 Freedom from apparent side effects	7 Efficacy or hygiene to meet food safety margins
8 Packaging safety.	9 Summary of submitted information etc
10 Standards/References - front page/may be attached	11 Contacts.
12 Confidential information re design, formulation etc.	13 Covering letter & then 14 Raw material confidential information

**Risk Rating (failure/accident)**

	Chemical	Microbiological
Incidence	Low	Low
Susceptibility	Low	Low-moderate (post-heat step)
Severity	Low	Low-high
Total	Low	Low-moderate (post-heat step)

**Evaluation:** Note that Standards vs. submission-responses yield compliance status in each of the sections below.

**Nature of information**

**0 Standard: Assurance information is to be evidential/cross-registered/or ex accredited bodies (and approvals may need levels of independence for toxicity and efficacy).**

This is a new AsureQuality assessment using Setsco Services Ltd tests per ISO 14644-9

**Raw materials:**

**1 Standard:**

**Raw materials are to be identified safe & remain hygienic** (Assessment call ups 1 & 5)

This is an HACCP analysis of instructions and	The Architectural Specification selects paint systems and methods for specific applications and in this case the focus is on suitability of coatings for clean rooms. At the same time	Top coats were tested to ISO 14644-9 Classification of surfaces by particle concentration. Test panels supplied were pre-washed and then a clean rinse
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clean room surface (clean-ability) tests	the TDS & MSDS for systems were sighted to ensure no other concerns. The TDS with chemical resistance and micro resistance (and in some cases this was not sighted please add a comment to complete this). We also sighted the MSDS with any hazardous substances listed and we commented where these may be rendered safe by incorporation in polymers or after evaporation during curing - but otherwise we did no comment on VOC status).	was independently taken tested for distribution of particles to lie inside class limits from few small particles to no large particles. The test laboratory was Setsco Services Ltd, Singapore. In addition to classifying size distribution class the laboratory also checked large particle composition by SEM-EDX. The laboratory test method was described by the test laboratory w/o ISO reference etc.).
<b>Interior Paint Systems I</b>		
<b>Type I3 Concrete Wall Surfaces &amp; Plastered Blockwork</b>		
<b>Type I3 Dry Process Rooms</b>		
1st coat Coverall Pre-Sealer	Coverall Primer Sealer. TDS w/o chemical & micro resistance ok. MSDS hazardous ingredients Alkarylalkoxylate & Ammonia ok w/o concern	
2nd coat Coverall Primer	Coverall Primer Sealer. TDS w/o chemical & micro resistance ok. MSDS hazardous ingredients Alkarylalkoxylate & Ammonia ok w/o concern	
3rd coat Coverall Heavy Bodycoat	Chevaline Coverall (topcoat) TDS chemical resistance "good resistance vs atmospheric pollutants, domestic cleaners & household pollutants. Limited resistance to solvents and oils. Fungus resistance - antifungal w/o toxic metals or phenols. MSDS mixed biocides w/o ID, Ammonium arylalkoxy sulphate, alkyl alkoxyate ok w/o concern.	
4th coat Colourglaze Topcoat	TDS chemical resistance "good resistance vs atmospheric pollutants, domestic cleaners & household pollutants. Limited resistance to solvents and oils. Fungus resistance - antifungal w/o toxic metals or phenols. MSDS hazards formaldehyde & ammonia lost to vapour w/o concern	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 6 (& almost all <10 micron)
<b>Type I3 Interior Precast Concrete Panel Wet Areas (Epoxy)</b>		
1st coat Epistix Sealer	Chevaline Epistix TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Epichlorohydrin Bisphenol A copolymer, Glycidyl neodecanoate & Titanium dioxide ok w/o concern.	
2nd coat Epistix Rapid Topcoat	Chevaline Epistix Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	
3rd coat Epistix Rapid Topcoat	Chevaline Epistix Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	
4th coat Epistix Rapid Topcoat	Chevaline Epistix Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 5 (all <10 micron)
<b>Type I7 Concrete Floors Painted - In the CIP/ Hygiene Process Areas - include non-slip option as necessary</b>		
1st coat Epistix Sealer	Chevaline Epistix TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Epichlorohydrin Bisphenol A copolymer, Glycidyl neodecanoate & Titanium dioxide ok w/o concern.	
2nd coat Epistix NS Body coat or Rapid Topcoat	Epistix NS may be similar to S Epistix above. Alternative is Chevaline Epistix Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	
3rd coat Epistix Rapid Topcoat	Chevaline Epistix Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	
4th coat Epistix Rapid Topcoat	Chevaline Epistix Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 5 (all <10 micron)
<b>Type I8 Concrete Floors Painted - In the CIP/ Hygiene Process Areas - with medium to heavy traffic</b>		
1st coat Epistix Sealer	Chevaline Epistix TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients	

	Epichlorohydrin Bisphenol A copolymer, Glycidyl neodecanoate & Titanium dioxide ok w/o concern.	
2nd coat Epistixx Rapid Topcoat	Chevaline Epistixx Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	
3rd coat Epistixx Rapid Topcoat	Chevaline Epistixx Rapid Topcoat TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyamine incomplete ID may be w/o concern.	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 5 (all <10 micron)
<b>Type I10 Exposed Structural Steelwork, undersides of steel decks, mild steel handrails for CIP or Hygiene Process Areas. Concrete Floors Painted - In the CIP/ Hygiene Process Areas - with medium to heavy traffic</b>		
1st coat Protexx Zincure	Protexx Zincure TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyisocyanate pre-polymer, naphtha light, 4-toluene=sulphonyl-isocyanate ok w/o concern.	
2nd coat Colour Cure HB Primer Surfacer	Colour Cure HB Primer Surfacer TDS Chemical & micro resistance unfound, MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (?)	
3rd Coat Colour Cure 2	Colour Cure 2. TDS Chemical & micro resistance unfound (WANTED), MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (? please confirm)	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 6 across the whole envelope
<b>Type I 11 Exposed mild steel floors, decks and stair treads - includes slip resistant option. This system is suitable for CIP or Hygiene Process Areas.</b>		
1st coat Protexx Zincure	Protexx Zincure TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyisocyanate pre-polymer, naphtha light, 4-toluene=sulphonyl-isocyanate ok w/o concern.	
2nd coat Colour Cure HB Primer Surfacer	Colour Cure HB Primer Surfacer TDS Chemical & micro resistance unfound, MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (?)	
3rd Coat Colour Cure 2	Colour Cure 2. TDS Chemical & micro resistance unfound (WANTED), MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (? please confirm)	
4th Coat Colour Cure 2	Colour Cure 2. TDS Chemical & micro resistance unfound (WANTED), MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (? please confirm)	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 6 across the whole envelope
<b>Type I13 Painted Galvanised Steelwork &amp; Handrails. This system is suitable for CIP or Hygiene Process Areas.</b>		
1st coat Protexx Zincure	Protexx Zincure TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Polyisocyanate pre-polymer, solvent naphtha light, 4-toluene=sulphonyl-isocyanate ok w/o concern.	
2nd coat Colour Cure HB Primer Surfacer	Colour Cure HB Primer Surfacer TDS Chemical & micro resistance unfound, MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour WANTED(?)	

3rd Coat Colour Cure 2	Colour Cure 2. TDS Chemical & micro resistance unfound (WANTED), MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (WANTED? please confirm)	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 6 across the whole envelope
<b>Solid Core Timber Doors</b>		
1st coat Epistix Primer	Chevaline Epistix TDS Chemical & micro resistance unfound (can infer ok), MSDS hazardous ingredients Epichlorohydrin Bisphenol A copolymer, Glycidyl neodecanoate & Titanium dioxide ok w/o concern.	
2nd coat Colour Cure HB Primer Surfacer	Colour Cure HB Primer Surfacer TDS Chemical & micro resistance unfound, MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour WANTED(?)	
3rd Coat Colour Cure 2	Colour Cure 2. TDS Chemical & micro resistance unfound (WANTED), MSDS hazardous ingredients Acrylic resin, polyester resin, 1-methoxy-2-propanol acetate, Solvent naphtha 100, Butyl acetate, Xylene and non-hazardous material - may be ok aired to no odour (WANTED? please confirm)	ISO 14644-9 Classification of surfaces by particle concentration prewashed rinsate independently tested class 6 across the whole envelope
Old Dairy Industry Standard coatings checklist for which the critical element here is "does not release toxic material" as addressed in paragraphs above but changed to cleanroom requirements.	Coatings Standard for non-contact application (per previous MQM1 Approvals Manual lists): Monitor and advise any unsatisfactory performance (to authors). Clean-ability: able to be adequately cleaned by normal procedures (for that area of the premises) without damage to the surface. Free from cracks, crevices and have no soil collection areas. Resistant to water and water vapour. Resistant (including. sheet wallboard jointers) with a low rate of moisture movement. Resistant to foods eg milk, cream, milk fat, whey, lactic acid, etc.	Resistant to chemicals (to 10% Sodium hydroxide, nitric acid, phosphoric acid, sulphuric acid, iodophors, QAC, etc. Toxicity: does not release toxic material under finished use conditions. Durability to (chipping, flaking, or delamination. (Normal) heat and water, Machinery vibration. And regular cleaning and sanitising. Resistant to impact, to thermal shock etc. (including jointers to NZDRI criteria +/- 5mm or if climate controlled +/- 2mm).Accounting for combinations of dry/wet, hot/cold, and severe conditions. Additional general assessment checks

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2434 F 03 379 9122 southern@equuw.co.nz  
or P O Box 601 Blenheim 7240 Tel 03 578 0214, Fax 03 578 0919.  
Contacts Rob Roxburgh GM rob@equus.co.nz

Dear Rob Roxburgh,

This is a cover letter for your assessment which is attached. Please let us know any questions, suggestions or concerns (and in this case it is all relatively new so we are looking forward to hearing back with improvements. The invoice and web listing should follow after.

**Equus Standard architectural specifications for dairy factories are listed**

Type I3 Dry Process Rooms

- 1st coat Coverall Pre-Sealer
- 2nd coat Coverall Primer
- 3rd coat Coverall Heavy Bodycoat
- 4th coat Colourglaze Topcoat

Type I3 Interior Precast Concrete Panel Wet Areas (Epoxy)

- 1st coat Epistixx Sealer
- 2nd coat Epistixx Rapid Topcoat
- 3rd coat Epistixx Rapid Topcoat
- 4th coat Epistixx Rapid Topcoat

Type I7 Concrete Floors Painted - In the CIP/ Hygiene Process Areas - include non-slip option as necessary

- 1st coat Epistixx Sealer
- 2nd coat Epistixx NS Body coat or Rapid Topcoat
- 3rd coat Epistixx Rapid Topcoat
- 4th coat Epistixx Rapid Topcoat

Type I8 Concrete Floors Painted - In the CIP/ Hygiene Process Areas - with medium to heavy traffic

- 1st coat Epistixx Sealer
- 2nd coat Epistixx Rapid Topcoat
- 3rd coat Epistixx Rapid Topcoat

Type I10 Exposed Structural Steelwork, undersides of steel decks, mild steel handrails for CIP or Hygiene Process Areas. Concrete Floors Painted - In the CIP/ Hygiene Process Areas - with medium to heavy traffic

- 1st coat Protexx Zincure
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2

Type I 11 Exposed mild steel floors, decks and stair treads - includes slip resistant option. This system is suitable for CIP or Hygiene Process Areas.

- 1st coat Protexx Zincure
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2
- 4th Coat Colour Cure 2

Type I13 Painted Galvanised Steelwork & Handrails. This system is suitable for CIP or Hygiene Process Areas.

- 1st coat Protexx Zincure
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2

Solid Core Timber Doors

- 1st coat Epistix Primer
- 2nd coat Colour Cure HB Primer Surfacer
- 3rd Coat Colour Cure 2

**Equus Standard architectural specifications for dairy factories fulfill requirements:**

- Product description: interior paint systems
- Product use: food & related clean processing areas areas per ISO 14644 clean room classifications & related technical considerations.
- Status: passed new AsureQuality factory assessment \$675 + GST 4.5 hours (a bit more new detail than

expected so let us know if there is concern)

**"Passed AsureQuality assessment for food/beverage/dairy factory food areas - clean rooms appropriate to surface cleanliness classification values listed here H3611" with conditions.** This assessment was prepared by Global Proficiency Ltd using HACCP principles to determine equivalence with food standards listed below. See <http://assessedproducts.asurequality.com/>. This supports food Risk Management Programmes & other endorsements that may apply to this product include MPI regulated farm dairy approval, MPI dairy factory endorsement, MPI regulated non-dairy animal product approvals, EPA HSNO-OSH-environment approval (& previously AQIS).

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Prepared by Global Proficiency for AsureQuality Ltd...

