



Cutting Edge Protective Coating Technologies

Roof Coating Systems Technical Manual



“The Environmentally Friendly Choice”

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1.0 AtomX™ Coating Products Overview

The coating systems described in this manual are combinations of either Acrylic products supplied as liquids in various sized pails, or surface preparatory products supplied in various sized pails for on site dilution with water. The AtomX™ Roof Coating Systems have been specifically formulated to accommodate all roofing substrates. In new and existing buildings, there is a variety of roofing materials used. This technical manual covers the use of all AtomX™ Roof Coating Systems over popular roofing substrates such as colour steel, pressed metal tiles, concrete tiles and galvanised iron.

Refer to the website www.atomx.co.nz for technical data sheets (TDS) and material safety data sheets (MSDS).

Handling and Storage

All products must be stored in a well ventilated area, kept dry, out of direct sunlight, away from freezing conditions and up off concrete floors. The products, in the original unopened containers, have a shelf life of 2 years from date of manufacture. Once opened the product should be used within 12 months. If after the first opening the lid is replaced tightly, the container can be stored upside down, thus sealing the lid and preserving the 2 year shelf life. Keep containers closed at all times when not in use.

Avoid contact with eyes, skin or clothing. Avoid breathing vapour. Clean any overspill and splatters thoroughly from surfaces, skin and clothing after use.

AtomX™ Chemwash

A special and highly concentrated water base formula containing Benzalkonium Chloride, for the widespread and long term control of moss and mould on tile roofs (concrete and decramastic), concrete and masonry surfaces.

AtomX™ Flush Compound

AtomX™ Flush Compound is a synthetic latex reinforced silica filled paste, which is mixed with cement prior to use.

AtomX™ Surface Sealer

An Acrylic based primer/sealer designed to seal concrete roofs prior to applying AtomX™ topcoat.

AtomX™ Silicone Treatment

AtomX™ Superseal

AtomX™ Superseal is a waterbased silicone impregnation agent which repels water and allows walls to breath, specially designed for the water-repellent treatment of buildings and building materials, including concrete tiles, paths, foundations, Summerhill Stone, concrete blocks and other porous building materials.

AtomX™ Elastotex System

AtomX™ Elastotex Primer/Basecoat

A specially formulated galvanised steel primer. Elastomeric, extended pure Acrylic primer incorporating fillers, extenders, fungicide, anticorrosive and ceramic pigments for increased durability. The texture is provided by a special environmentally friendly rubber type chip.

AtomX™ Elastotex High Build Topcoat

A specially formulated elastomeric coating for use on roofs and buildings. A high viscosity, pure Acrylic coating incorporating fillers, extenders, fungicide and ceramic pigments for increased durability.



AtomX™ Ceramicoat System

AtomX™ Concrete Basecoat

A specially formulated high build concrete roof basecoat. It is a water borne Styrene Acrylic polymer containing a fungicide, light fast pigments and incorporating ceramic pigments for extended durability. Advanced Ceramic pigments provide a colour fast lamination process. Grey in colour to act as a visual guide-coat to assure the even application of the AtomX™ High Build Topcoat.

AtomX™ Concrete High Build Topcoat

A specially formulated high build Matte colour topcoat. Formulated with a water borne pure Acrylic polymer containing a fungicide, light fast pigments, and incorporating ceramic pigments for extended durability. Advanced Ceramic pigments provide a colour fast lamination process. This is the final colour coat giving a Matte finish.

AtomX™ Galvcoat System

AtomX™ Galvanised Iron Primer/ Basecoat

A specially formulated coating for galvanised steel galvalume and zincalume roofing materials. A Styrene Acrylic based primer containing anti-corrosive pigments designed to act as a strong bond between the substrate and the AtomX™ Topcoat.

AtomX™ Galvanised Iron Topcoat

A specially formulated coating for galvanised steel roofing materials. It is a high viscosity pure Acrylic based coating incorporating fillers, extenders, fungicide and ceramic pigments for extended durability.



2.1 Chemical Wash Down



2.0 AtomX™ Substrate Preparation

AtomX™ Steelcoat System

AtomX™ Steel Topcoat

A specially formulated self etching, pure Acrylic, one coat coating system for weathered coil coated roofing, incorporating fillers, extenders, fungicide and ceramic pigments for extended durability.

AtomX™ Chemwash

Product description

A special and highly concentrated water base formula containing Benzalkonium Chloride, for the widespread and long term control of moss and mould on tile roofs (concrete and decramastic), concrete and masonry surfaces.

Properties

The aqueous solution is highly surface active and will rapidly wet surfaces giving rapid penetration of the active material. It has strong residual properties, which inhibit regrowth over varying time spans. It is designed to ensure all fungi and

algae spores are killed to produce a sterile substrate for coating.

Uses

Primarily designed for long-term moss control and for assisting in the cleansing and preparation of the roof prior to the application of the AtomX™ Coating System.

General Data

Dilution rate: 100:1 with water.
Coverage: 1L/m² or until the surface is saturated.
Colour: Clear colourless to pale yellow liquid.
Clean up: Can be used at recommended concentrations without the need for a water wash down of areas not being treated.

Environment: Completely soluble and non-corrosive.

Application:

Apply with a rose head type wand or similar low-pressure system.

2.2 Power Wash

Purpose:

To wash away the fungal, moss and lichen growth plus any dirt that the chemical wash has released from the roof surface. This ensures a sound base and sterile substrate is prepared for the AtomX™ Coating System.

Equipment

Approximately 3000 PSI tip pressure aqua blast unit with a capacity of 18 - 23 litres per minute. A turbo tip is recommended.

Method

The roof is checked for possible leaks. The surface is Power Washed from top to bottom and the job is finished by cleaning slurry from the spouting ensuring the building and grounds are cleaned and left in the condition they were prior to the work commencing.

2.3 Roof Maintenance

As part of the overall refurbishing treatment roof maintenance may be required.

These maintenance repairs vary dependent upon the roofing product. The following list covers most repairs.

- replacement of cracked tiles
- remortaring cracked hip/ridge caps
- resealing hairline cracks in mortar
- replacement of valley gutters
- reflashing chimney and ventilaion pipes
- reflashing dormer windows and split gables
- renail loose tiles on iron sheeting
- straighten buckled tiles
- treatment of surface corrosion*
- replace badly corroded tiles or iron sheeting
- repairing of barge flashings
- replacement of ridges and hips

Note: Work will differ greatly from roof to roof. It may be necessary to employ the services of a qualified plumber/roofer to carry out some of the repair work.

2.4 Flushing Compound

AtomX™ Flush Compound

Product Description

AtomX™ Flush Compound is a synthetic latex reinforced silica filled paste, which is mixed with cement prior to use.

Properties

Designed for use on cement render and concrete.

Uses

For the repair of hairline cracks in mortaring and general patching around hips and ridge caps.

General Data

Coverage: N/A.
Wet film thickness: N/A.
Colour: Off-white/fawn.
Curing time: Portland cement standard.
Touch dry: 3 hours.
Apply coatings: After 12 hours (temp/weather dependent).
Pot life: Portland cement standard (N.Z.S. 3122-1974) - 3 hours.

Application

Apply by trowel and float to maximum thickness of 5mm per application.

Minimum over coating time: Allow 1 - 3 hours to dry before application of the selected AtomX™ Coating System.



3.0 AtomX™ Silicone Treatment

2.5 Concrete Sealer AtomX™

Surface Sealer

Product Description

An Acrylic based primer/sealer designed to seal concrete roofs prior to applying the selected AtomX™ topcoat.

Properties

Designed to penetrate concrete, to bind it and provide a sound base prior to the application of the selected AtomX™ topcoat. Used for binding deteriorating concrete glazes.

Uses

A sealer for concrete tiles that have any of the old original oxide coatings still showing. Suitable as a basecoat and replaces AtomX™ Concrete Basecoat on newer tile types like Monier, Roscrete or similar tile types. It must be top coated with the selected AtomX™ topcoat.

General Data

Coverage:	100m ² /20L.
Wet film thickness:	200 microns.
Number of coats:	1.
Drying time:	Dry in 1 - 3 hours.

Colour: Milky light blue.

Application

Spray on to clean and dry substrate.

3.1 AtomX™ Superseal

Product Description

Atomx™ Superseal is a waterbased silicone impregnation agent which repels water and allows walls to breath, specially designed for the water-repellent treatment of buildings and building materials, including concrete tiles, paths, foundations, Summerhill Stone, concrete blocks and other porous building materials.

Atomx™ Superseal reacts with moisture and CO² in the air to create an efficient barrier against water penetration without hindering the passage of air and vapour. This enables the wall or material to breath, therefore any moisture or dampness trapped can evaporate, wet areas will dry-out while preventing any further water penetration.

It also prevents dampness and mould on internal walls, helps in prevention of freeze/thaw damage on porous surfaces by stopping ingress of moisture into the material. It can be applied to a dry or slightly damp surface.

Surfaces treated with Atomx™ Superseal can be painted after 2-3 years provided certain precautions are taken with water-based paints (do not dilute the coatings).

Advantages

Significantly reduces moisture penetration which:

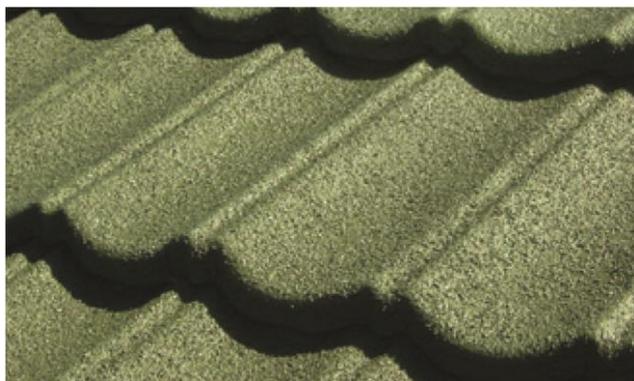
- Increases the building materials lifespan
- Limits the growth of moss, mould and lichen
- Cuts down heat loss
- Helps to control efflorescence
- Reduces sensitivity to freeze/thaw cycles
- 2-3 years protection

General Data

Appearance:	Colourless liquid
Active Ingredient Content:	45%
Specific Gravity:	1.33 @20°C
Viscosity:	11mm ² /sec
Flashpoint:	100°C
UN Number:	1719
Class:	8 Corrosive
Packaging Group:	11
Hazchem Code:	2R

Application

1. For general purpose treatments mix 1 litre of AtomX™ Superseal with 15 litres of water. Manual stirring is all that is needed for proper dilution.
2. 1 litre of mixed solution will cover 2-5m². This is dependant on the porosity of the material to be treated. The dilution may be applied by brush, roller or spraying, in all cases it must be applied liberally enough that it will run down the surface. If spraying misting must be avoided as penetration will be poor.
3. A low pressure rosehead type spray or watering can is ideal. The water repellent should be kept off glass and aluminium joinery. Equipment used in its application should not contain aluminium or light alloys.
4. NOT to be used over red brick with white mortar.



4.1 AtomX™ Elastotex Primer/Basecoat

Product Description

A specially formulated galvanised steel primer. Elastomeric, extended pure Acrylic primer incorporating fillers, extenders, fungicide, anticorrosive and ceramic pigments for increased durability. The texture is provided by a special environmentally friendly, coloured rubber type chip.

Properties

Designed for good adhesion and corrosion resistance with the elastomeric membrane providing maximum weather durability under extreme conditions.

Uses

For priming and texturing on metal tiles or other suitable surfaces prior to the application of the AtomX™ Elastotex High Build Topcoat.

General Data

Coverage:*	40 - 50m ² /20L.
Wet film thickness:	400 microns (minimum).
Colour:	16 standard colours.
Drying time:**	1 - 3 hours.
Thinners:	Water.
Cleaner:	Water soluble.
Substrate condition:***	Clean, dry and free from grease spots and loose material.
Drinking water:	Can be applied to roofs used for collecting drinking water.

*Dependant on profile and substrate.

**Drying time varies according to climatic conditions. Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Note: Preparatory Treatment as per specification 2.0.

4.0 AtomX™ Elastotex System Metal Tiles (PMT)

4.2 AtomX™ Elastotex High Build Topcoat

Product Description

A specially formulated elastomeric coating for use on roofs and buildings. A high viscosity, pure Acrylic coating incorporating fillers, extenders, fungicide and ceramic pigments for increased durability.

Properties

The coating is highly elastic and designed for maximum weather durability and adhesion to weathered substrates. Provides high resistance to U.V., erosion and fungal attacks.

Uses

For top coating chip coated tile roofs and other exterior areas requiring an elastomeric membrane topcoat. To be applied as a top coat over AtomX™ Elastotex Primer/Basecoat.

General Data

Coverage:*	50 - 60m ² /20L untextured.
Wet film thickness:	333 microns (minimum).
Colour:	16 standard colours.
Drying time:**	1 - 3 hours.
Clean up:	Water soluble.
Substrate condition:***	Applied over AtomX™ Elastotex Primer/Basecoat.
Drinking water:	Can be applied to roofs used for collecting drinking water.

*Dependant on profile and substrate.

**Drying time varies according to climatic conditions. Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Concrete Tiles



5.1 AtomX™ Concrete Basecoat

Product Description

A specially formulated concrete high build roof basecoat. It is a water borne Styrene Acrylic polymer containing a fungicide, light fast pigments, and incorporating ceramic pigments for extended durability. Advanced Ceramic pigments provide a colour fast lamination process. Grey in colour to act as a visual guide-coat to assure the even application of the AtomX™ Concrete High Build Topcoat.

Properties

Designed to penetrate the substrate and to give good adhesion for the complete AtomX™ Coating System. This product also acts as a barrier against moisture whilst still allowing the substrate to breathe.

Uses

A primer/basecoat used for concrete roofing materials.

Note: Refer to section 2.6 AtomX™ Surface Sealer.

General Data

Coverage:*	50 - 60m ² /20L.
Wet film thickness:	333 microns (minimum).
Colour:	Grey.
Drying time:**	1 - 3 hours.
Cleaner:	Water soluble.
Substrate condition:***	Chemically cleaned and Power Washed prior to application.

Drinking water: Can be applied to roofs used for collecting drinking water.

*Dependant on profile and substrate.

**Drying time varies according to climatic conditions. Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

6.0 AtomX™ Galvcoat System

**Drying time varies according to climatic conditions. Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Note: Preparatory Treatment as per specification 2.0.

5.2 AtomX™ Concrete High Build Topcoat

Product Description

A specially formulated AtomX™ Concrete High Build Coloured Topcoat. Formulated with a water borne pure Acrylic polymer containing fungicide, light fast pigments, and incorporating ceramic pigments for extended durability. Advanced Ceramic pigments provide a colour fast lamination process. This is the final colour coat providing a Matte finish.

Properties

Designed for maximum durability against U.V., high humidity, erosion from strong winds and driving rain. Contains light fast pigments and a fungicide, this product is alkali resistant and has the ability to breathe.

Uses

The Matte topcoat in the concrete tile AtomX™ System.

General Data

Coverage:* 50 - 60m²/20L.
Wet film thickness: 333 microns (minimum).
Colour: 16 standard colours.
Drying time:** 1 - 3 hours.
Clean Up: Water soluble.
Substrate condition:*** Applied over AtomX™ Concrete Basecoat.
Drinking water: Can be applied to roofs used for collecting drinking water.

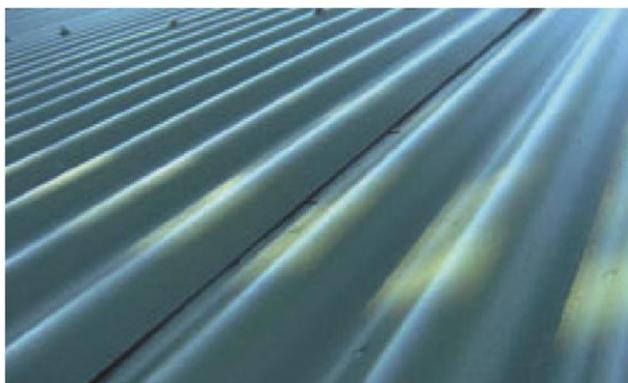
*Dependant on profile and substrate.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Galvanised

Iron



6.1 AtomX™ Galvanised Iron Primer/Basecoat

Product Description

A specially formulated Styrene Acrylic based primer containing anti-corrosive pigments designed to act as a strong bond between the substrate and the AtomX™ Galvanised Iron Topcoat.

Properties

Designed for maximum adhesion and weather durability under extreme conditions.

Uses

For priming new and weathered galvanised steel galvalume and zincalume surfaces and touching up bare areas on metal tiles or galvanised iron without fear of affecting the original roof coating.

General Data

Coverage:* 80 - 100m²/20L.
Wet film thickness: 200 microns (minimum).
Colour: Grey.

Drying time:**	1 - 3 hours.
Cleaner:	Water soluble.
Substrate condition:***	Clean, dry and free from grease spots and loose material.
Drinking water:	Can be applied to roofs used for collecting drinking water.

*Dependant on profile and substrate.

Pitch:	Not to be used on roofs below 8° pitch.
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*Dependant on profile and substrate.

**Drying time varies according to climatic conditions. Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

7.0 AtomX™ Steelcoat System

**Drying time varies according to climatic conditions. Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Note: Preparatory Treatment as per specification 2.0 (The Chemwash should be replaced with a detergent wash).

6.2 AtomX™ Galvanised Iron Topcoat

Product Description

A specially formulated coating for galvanised steel roofing materials. It is a high viscosity pure Acrylic based coating incorporating fillers, extenders, fungicide and ceramic pigments for extended durability.

Properties

Designed and tested for maximum weather durability, for protection against U.V. light and the damage caused by weather and erosion. Formulated to restrict the onset of organic growth.

Uses

For use as a finishing coat over AtomX™ Galvanised Iron primer/basecoat.

General Data

Coverage:*	80m ² /20L.
Wet film thickness:	250 microns.
Colour:	16 standard colours.
Drying time:**	1 - 3 hours.
Cleaner:	Water soluble.
Substrate condition:***	Applied over AtomX™ Galvanised Iron Primer/Basecoat.
Drinking water:	Can be applied to roofs used for collecting drinking water.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Factory Prepainted Steel



7.1 AtomX™ Steel Topcoat

Product description

A specially formulated self etching, pure Acrylic, one coat coating system for weathered coil coated roofing products, incorporating fillers, extenders, fungicide and ceramic pigments for extended durability.

Properties

Designed and tested for maximum weather durability, for protection against U.V. and the damage caused by weather and erosion. Formulated to restrict the onset of organic growth.

Uses

A AtomX™ one-coat system for weathered coil coated steel,

exception). This ensures consistency of colour is achieved over the entire job.

Ironbark Technology Ltd produces only the highest quality paints for professionals using the highest quality raw materials; this is backed up with quality support. As part of this service, we offer advice to our Networks of Distributors and system providers about colour to help them achieve the best results time after time.



colourtile and tuffcoat tiles.

General Data

Coverage:*	70 - 80m ² /20L.
Wet film thickness:	250 microns.
Drying time:**	1 - 3 hours.
Cleaner:	Water soluble.
Substrate condition:***	Clean, dry and free from grease spots and loose material.

*Dependant on profile and substrate.

**Drying time varies according to climatic conditions.
Should not be applied below 10°C, or when the temperature may drop below 10°C during drying time.

Application

*** Only to be applied by applicators Authorised by Ironbark Technology Ltd.

Note: Preparatory Treatment as per specification 2.0
(The Chemwash should be replaced with a detergent wash).

The human eye can differentiate between approximately 10 million colours, the way in which light hits a building can alter that perceived colour, in some cases substantially. However, although paint manufacturers have been making and using colours for many, many years, there are fundamental issues around colour matching that still arise.

Industry standard paint technology is still plagued with many variables and whilst these variables may be very small, they can still be quite significant at times.

Why are variables experienced?

- 1) Manufactured pigments have always differed from batch to batch.
- 2) Tinting machines consistently produce a slightly different strength of colour each time.
- 3) Raw materials used in the manufacture of bases vary every time the product is made.

These are just three reasons why, historically, the paint industry has always experienced batch to batch variation on ready mixed and tinted paint based products.

Appendix A

Colour Variations between Batches & Tints

As in good trade practice, all pails of tinted paint should be boxed together prior to use (without

Over the last 20 years the market has moved from ready mixed to predominately tinted paints. Whilst this

gives our Distributors, system providers and end users greater advantages, it also introduces the obstacles associated with colour variation. These colour variations effect a wide range of industry where colours are used.

What can be done to minimise the impact of colour variation?

- 1) Use a single batch for a job or an isolated area. i.e. a paint product that has been tinted from the same tinting machine at the same time.
- 2) Do not use paint from different batches on the same surface or surfaces close together. If possible, purchase paint for the whole job at one time.
- 3) Industry trade practice requires that if you have mixed batches of coloured paint then they must always be 'boxed' together. i.e. mixing all the paints in a large container will always ensure colour consistency.
- 4) Check the colour of all buckets in each batch before you use it.

- 5) Ask the Client or Project Manager to agree that the colour (and quality of the paintwork) is in line with the specification by signing off a small test area at the beginning of the project. This will avoid costly recoating every time.
- 6) The appearance of a colour always depends on the type of lighting. Therefore be sure that the Client or Project Manager checks the colour in suitable lighting conditions. The Client or Project Manager may not ask for this so painting contractors need to be proactive in requesting this check.
- 7) 'Touching up' should only be attempted using paint from the original job using the same application methods. Therefore, paint should be reserved specially for this purpose. It is recommended that touching up is carried out up to a break in the wall or surface. With particular colours, usually deeper shades and higher sheen finishes it may be necessary to recoat the entire area to avoid noticeable differences in appearance.

If you have any questions don't hesitate to contact Ironbark Technology Ltd for professional advice.



Promax Coating Systems Dunedin - Exclusive supplier of the AtomX™ range of products to the Otago region General example of a concrete tile roof construction



Notes

Technical Support

Ironbark Technology Ltd and its nationwide network of distributors and system providers offer technical assistance in New Zealand.

Visit www.atomx.co.nz for your nearest distributor or system provider who will offer free estimating services and/or technical support to project architects, engineers, builders and owners.

Guarantee

Ironbark Technology Ltd guarantees its AtomX™ Coating Systems to be free of defect in materials and manufacture. This guarantee excludes all other guarantees and liability for damage or loss in connection with defects in Ironbark Technology Ltd's product, other than those imposed by legislation.

Health & Safety

Information on any known health risks of our products and how to handle them safely is shown on their package and/or the documentation accompanying them. Additional information is listed in the Material Safety Data Sheets available on our website www.atomx.co.nz.

Disclaimer

Colour Variations between Batches & Tints

Ironbark Technology take no responsibility for any colour variations between different batches of tinted paint based products. Please ensure that you always order enough paint to complete the entire project. Refer to Appendix A of this manual for further information.

Authorised Distributor

For further information on products and our New Zealand wide Distribution Network
Phone (03) 456 4222 or visit
www.atomx.co.nz



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