

INNOVATIVE
INTERNATIONALLY CERTIFIED
ANTIMICROBIAL
COATINGS
FOR ALL SURFACES



www.jurunature.com

About Jurunature - Qlenz® & Recoat® BV

Jurunature Sdn Bhd (JNSB) was established in the year 2000 and have developed to become a company that provides pioneering service solutions and innovative products that are actively required by our esteemed clients in the Oil & Gas Industry.

Due to the **severity of the coronavirus** and associated pandemic concerns that has changed our lives and the world we live in, **JNSB** has entered into an exclusive partnership with Recoat BV for the Asian market to promote the use of innovative antimicrobial recoating system that will help alleviate majority of these concerns. To enhance the awareness and marketing of these products, **JNSB** is equally proud to announce its collaboration with Qlenz®, a trademark brand that is actively promoting innovative cleaning solution within the Region. **JNSB** is optimistic that with this collaboration and partnership, it will help **mitigate the spread of coronavirus through the innovative antimicrobial recoating system being introduced** as part of our Corporate Social Responsibility.

Recoat BV, which is based on 100-year-old experience and technology in coatings, has developed a range of innovative antimicrobial permanent transparent coatings that work on a wide range of microbes, and specifically on SARS-CoV2 that causes COVID-19. This technology is marketed by **JNSB - Qlenz®**



— RECOAT —

JURUNATURE - QLENZ® RECOAT® TECHNOLOGY

A GAME CHANGER

Microbes and dangers to health

Microbes which include bacteria, fungi, and viruses are too small to be seen by the naked eye, yet they can make us severely ill. They cause infectious diseases such as the flu, measles and COVID-19 and may contribute to many non-infectious chronic diseases such as some forms of cancer and coronary heart disease.

Cross-contamination

High-touch surfaces, i.e. surfaces that are touched frequently, are a major source of cross-contamination that can lead to infections. Microbes can live on inanimate surfaces for days up to months. The commonly used treatments are surface disinfectants, they eliminate microbes BUT they are not permanent solutions as these surfaces can be easily re-contaminated after a few minutes. Other treatments include long-lasting disinfectants that get eroded relatively fast where you most need them, i.e. on high-touch surfaces.

The Game Changer: Permanent clear antimicrobial coatings

Recoat AM Protector technology based on silver chloride provides low VOC water-based clear thin-film coatings, of 4-5 micrometers thickness, of different types that are very easy to apply on diverse substrates. The coatings that work actively, ensure that treated surfaces are **virus, bacteria and fungi resistant 24/7**, a real game changer! This technology provides peace of mind for those who are concerned about the health of customers, patients and employees in the commercial, residential and medical fields. The efficacy of this unique technology that eliminates microbes upon contact has been proven in renowned specialized international labs, an extensive number of antimicrobial test reports is available.

Service life & UV light inspection

The service life of the coatings is at least 6 months on high-touch surfaces and can reach up to 10 years depending on wear. The abrasion resistance of Recoat coatings is similar to that of road marking coatings and has been tested in third-party specialized labs. In order to check the effectiveness of the transparent system, the ingenious technology allows **inspection using UV light**. The level of consistency and thickness of the film is apparent when subjected to such light, as long as the film is apparent the coating is fully functional.

WHY Jurunature - Qlenz® X Recoat®



- ✓ Coatings work actively 24/7 to eliminate viruses, bacteria and fungi.
- ✓ Permanent antimicrobial coatings, not long-lasting disinfectants.
- ✓ Tested in renowned specialized international labs for elimination of microorganisms.
- ✓ Proven to eliminate SARS-CoV2, the virus that causes COVID-19.
- ✓ Based on **safe** silver chloride technology, **not based on nanotechnology**.
- ✓ Coatings last 6 months on high-touch surfaces and up to 10 years if not subject to abrasion.

Areas of Application

Keeping surfaces safe

Recoat coatings can be applied on various high-touch surfaces such as door handles, ATM machines, countertops, bathroom surfaces in public areas such as restaurants, public transport, laundromats, hotels, airports, nurseries, schools, gyms, shopping malls, hospitals and faith-based community centers.

The coatings will eliminate bacteria, viruses and fungi that come in contact with the coated surfaces.



Your Ultimate Antimicrobial Solution

Innovative
coating technology

UV light
durability testing

Protects all surfaces

Reduced
cleaning
frequency

**Your Ultimate
Antimicrobial
Solution**

Eliminates bacteria,
viruses and fungi

Easy application

Minimum
6 months protection,
up to 10 years

Eco-friendly,
Water-based
and low VOC

Safe for children,
the elderly, and the ill

INNOVATIVE

Antimicrobial Coating For All Surfaces



JURUNATURE - QLENZ®

Product range

We Care For Your Health

PRODUCT LINE

Recoat® Cleaner



PRODUCT DESCRIPTION

- Water-based disinfectant specially formulated to clean surfaces coated with Recoat AM Protector whenever needed.
- Contains 0% alcohol.
- Safe to use on any substrate.
- Especially developed for cleaning and preparing surfaces to be coated with Recoat coatings.

AREA OF APPLICATION

Recoat products are easy to work with/handle. The Recoat products can be applied without sanding. The Recoat Cleaner has been developed for this purpose. It is however necessary to clean the substrate thoroughly. This cleaner ensures optimal adhesion to the substrate. Recoat Cleaner is extremely suitable for cleaning weathered coatings. The Cleaner is also a universal degreaser especially developed as final treatment for Recoat finishes.

JOB DESCRIPTION

Apply the Recoat Cleaner evenly to the surface while rubbing and let dry. The surface doesn't need to be rinsed with water,

TECHNICAL PROPERTIES

Base	Water and solvent solution
Colour	Colourless
Application by means of	Cloth, Sponge
Cleaning materials	Water
PH Value	Neutraal
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	A maximum of 24 months in case of dry storage and a temperature of 5°C to 30°C.

Recoat® AM Protector



PRODUCT DESCRIPTION

- Low VOC water-based clear coating that is very easy to apply.
- Ensures that treated surfaces are viral, bacterial, and fungal resistant 24/7.
- Provides a thin paint film which is suitable for almost all surfaces.
- **Ideal for substrates such as chrome, handles, stainless steel, ceramic, and wood.**
- Ensures optimal and faster adhesion and a longer coating life.
- Lasts 6 months on high-touch surfaces and up to 10 years if not subject to abrasion.
- Coating film is detectable with UV flashlight.

AREA OF APPLICATION

Recoat AM Protector® is suitable for all surfaces, in any sector. It adheres to most substrates; stainless steel, aluminium, copper, zinc, chrome, most plastics, ceramic, wood, stickers, foil and existing coatings.

Not applicable to transparent substrates due to clarity.

JOB DESCRIPTION

Before application first clean the substrate with Recoat Cleaner, following the instructions on the TDS. Immerse a microfibre cloth in clean water and squeeze to remove excess water. Other application tools (e.g. rollers) should also be moistened with clean water before use. This to prevent unnecessary consumption of material.

Stir before use. Apply the Recoat AM Protector® on the substrate, wetting 80% of the surface, then divide evenly over the surface with a microfibre cloth. Do not rub or polish, just disperse the product with light movements avoiding to use too much pressure.

Drying time 15 minutes, touch and use after 3-4 hours.

In the maintenance cycle repeat the above treatment.

CAUTION: Clean the surface first with Recoat Cleaner and then treat it with Recoat AM Protector®.

The expected lifetime is 6 months under normal circumstances. This may vary, depending on circumstances and user intensity of an object or surface. No rights can be derived from the expected lifetime.

Type of micro fibre cloth: Use a micro fibre cloth with long fibres. Storing the cloth in a seal bag will prevent the cloth from drying out. As a result it will last much longer.

Maintenance: **DO NOT CLEAN WITH ALCOHOLIC CLEANING AGENTS.**

TECHNICAL PROPERTIES

Base	High quality modified acrylate dispersions
Approximate specific density	1,02 Kg/L
Volume fixed percentage	25 - 27 %
Output	Approx. 40 m ² - 50 m ² / liter
Drying at 20 °C	15 minutes, touch-dry after 20 minutes
Colour	Clear
Gloss strength	Semi Gloss 35
VOC content	26 g/l. 13g per bottle
Application by means of	Felt roller, Microfiber cloth
Recommended Layer Thickness	Wet: 15 to 30 micrometres, Dry: 3,5 to 7,5 micrometres
Application	Wear gloves and ensure sufficient ventilation
Active ingredient	Silver chloride
Cleaning materials	Recoat Cleaner, Water
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	A maximum of 24 months in case of dry storage and a temperature of 5°C to 30°C.
Maintenance	Do not clean with alcoholic cleaning agents

Recoat® AM Protector Fabrics



PRODUCT DESCRIPTION

- Water-based clear coating that is very easy to apply.
- Ensures that treated surfaces are viral, bacterial, and fungal resistant 24/7.
- **Ideal for fabric surfaces such as furniture, upholstered furniture, curtains, and carpets.**

AREA OF APPLICATION

Recoat AM Protector® Fabrics is suitable in any sector and is suitable for fabric surfaces such as furniture and curtains etc.

JOB DESCRIPTION

Make sure the surface is clean and grease-free.

Stir before use, Apply Recoat AM Protector® Fabrics evenly and leave to dry (4-6 hours)

Hardened after 24 hours

In the maintenance cycle repeat the above treatment.

The expected lifetime is one year under normal circumstances. This may vary, depending on circumstances and user intensity of an object or surface. No rights can be derived from the expected lifetime.

Maintenance: DO NOT CLEAN WITH ALCOHOLIC CLEANING AGENTS.

TECHNICAL PROPERTIES

Base	High quality modified acrylate dispersions
Approximate specific density	1,02 Kg/L
Volume fixed percentage	11%
Application temperature	10 - 30 °C
Relative humidity	A maximum of 80%
Output	Approx. 25 m ² - 30 m ² / liter The output depends on the application method, roughness, structure and porosity of the substrate.
Drying at 20 °C	Cleanable after 24 hours, Ready to use after 4-6 hours, Dust dry after 30 min
Colour	Colourless
Application	Wear gloves and ensure sufficient ventilation
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	Unopened a maximum of two years in case of dry cool and frost-free storage.
Maintenance	Do not clean with alcoholic cleaning agents

Recoat® AM Protector Gloss



PRODUCT DESCRIPTION

- Water-based clear coating that is very easy to apply.
- Ensures that treated surfaces are viral, bacterial, and fungal resistant 24/7.
- **Ideal for glossy substrates such as chrome, glass handles, aluminum, and existing coatings. Do not apply to windows and mirrors.**
- Coating film is detectable with UV flashlight.

AREA OF APPLICATION

Recoat AM Protector® Gloss is suitable for all surfaces in any sector. It adheres to most substrates; stainless steel, aluminium, copper, zinc, chrome, most plastics, glass, ceramic, wood, stickers, foil and existing coatings. Application on transparent substrates should be done in thin coats, dispersed with a microfibre cloth, to ensure clarity.

CAUTION: Do not apply to windows and mirrors.

JOB DESCRIPTION

Before application first clean the substrate with Recoat Cleaner, following the instructions on the TDS. Immerse a microfibre cloth in clean water and squeeze to remove excess water. Other application tools (e.g. rollers) should also be moistened with clean water before use. This to prevent unnecessary consumption of material.

Stir before use. Apply the Recoat AM Protector® Gloss on the substrate, wetting 80% of the surface, then divide evenly over the surface with a microfibre cloth. Do not rub or polish, just disperse the product with light movements avoiding to use too much pressure.

Drying time 15 minutes, touch and use after 3-4 hours.

In the maintenance cycle repeat the above treatment.

CAUTION: Clean the surface first with Recoat Cleaner and then treat it with Recoat AM Protector® Gloss.

The expected lifetime is 6 months under normal circumstances. This may vary, depending on circumstances and user intensity of an object or surface. No rights can be derived from the expected lifetime.

Type of micro fibre cloth: Use a micro fibre cloth with long fibres. Storing the cloth in a seal bag will prevent the cloth from drying out. As a result it will last much longer.

Maintenance: **DO NOT CLEAN WITH ALCOHOLIC CLEANING AGENTS.**

TECHNICAL PROPERTIES

Base	High quality modified acrylate dispersions
Approximate specific density	1,02 Kg/L
Volume fixed percentage	25 - 27 %
Output	Approx. 40 m ² - 50 m ² / liter
Drying at 20 °C	15 minutes, touch-dry after 20 minutes
Colour	Clear
Gloss strength	Gloss
VOC content	26 g/l. 13g per bottle
Application by means of	Felt roller, Microfiber cloth
Recommended Layer Thickness	Wet: 15 to 30 micrometres, Dry: 3,5 to 7,5 micrometres
Application	Wear gloves and ensure sufficient ventilation
Active ingredient	Silver chloride
Cleaning materials	Recoat Cleaner, Water
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	A maximum of 24 months in case of dry storage and a temperature of 5°C to 30°C.
Maintenance	Do not clean with alcoholic cleaning agents

Recoat® AM Protector Flex



PRODUCT DESCRIPTION

- Very flexible water-based clear coating that is very easy to apply.
- Ensures that treated surfaces are viral, bacterial, and fungal resistant 24/7.
- **Ideal for flexible substrates such as leather, artificial leather, rubber, and soft plastic.**
- Coating film is detectable with UV flashlight.

AREA OF APPLICATION

Recoat AM Protector® Flex is suitable in any sector and is suitable for flexible substrates such as leather, artificial leather, skai or rubber.

JOB DESCRIPTION

Before application first clean the substrate with Recoat Cleaner, following the instructions on the TDS. Immerse a microfibre cloth in clean water and squeeze to remove excess water. This to prevent unnecessary consumption of material.

Stir before use, wetting 80% of the surface, then divide evenly over the surface with a microfibre cloth. Do not rub or polish, just disperse the product with light movements avoiding to use too much pressure.

Drying time 15 minutes, touch and use 3-4 hours. Hardened and ready to be cleaned after 24 hours.

In the maintenance cycle repeat the above treatment.

CAUTION: Clean the surface first with Recoat Cleaner and then treat it with Recoat AM Protector® Flex.

The expected lifetime is 6 months under normal circumstances. This may vary, depending on circumstances and user intensity of an object or surface. No rights can be derived from the expected lifetime.

Type of micro fibre cloth: Use a micro fibre cloth with long fibres. Storing the cloth in a seal bag will prevent the cloth from drying out. As a result it will last much longer.

Maintenance: **DO NOT CLEAN WITH ALCOHOLIC CLEANING AGENTS.**

TECHNICAL PROPERTIES

Base	High quality modified acrylate dispersions
Approximate specific density	1,02 Kg/L
Volume fixed percentage	25 - 27 %
Application temperature	10 - 30 °C
Relative humidity	A maximum of 80%
Output	Approx. 40 m ² - 50 m ² / liter
Drying at 20 °C	15 minutes, touch-dry after 20 minutes
Colour	Clear
Gloss strength	Semi Gloss 35
VOC content	26 g/l. 13g per bottle
Application by means of	Felt roller, Microfiber cloth
Recommended Layer Thickness	Wet: 15 to 30 micrometres, Dry: 3,5 to 7,5 micrometres
Application	Wear gloves and ensure sufficient ventilation
Active ingredient	Silver chloride
Cleaning materials	Recoat Cleaner, Water
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	A maximum of 24 months in case of dry storage and a temperature of 5°C to 30°C.
Maintenance	Do not clean with alcoholic cleaning agents

Recoat® Stix



PRODUCT DESCRIPTION

- High performance adhesion promoter.
- Seals the substrate.
- Ideal for all hard substrates such as metals, many types of plastics, glass, and ceramics.

AREA OF APPLICATION

Recoat Stix is suitable for practically all hard substrates such as metals, many types of plastics, glass and ceramics. Recoat Stix dries very quickly (ca. 10min.) enabling to apply the topcoat at very short notice.

JOB DESCRIPTION

Clean the substrate with Recoat Cleaner (see TDS).

Divide Recoat Stix evenly over the substrate, rub gently, do not polish. Drying time appr. 10 minutes. Can be recoated when dry.

User advice: preferably use a microfibre cloth for application.

After use store the microfibre cloth in a seal bag or airtight packing, to prevent the cloth from drying out. This will enhance the lifetime of the cloth.

TECHNICAL PROPERTIES

Base	Clear waterborne primer on acrylate basis
Approximate specific density	1,02 Kg/L
Volume fixed percentage	13 %
Application temperature	10 - 30 °C
Relative humidity	A maximum of 80%
Output	Approx. 60 m ² - 80 m ² / liter The output depends on the application method, roughness, structure and porosity of the substrate.
Drying at 20 °C	Dry to recoat after appr. 10 minutes.
Colour	Clear
Gloss strength	Semi Gloss
VOC content	26 g/l. The product is suitable for indoor and outdoor use. EU-limit for this product: 140 g/l.
Application by means of	Brush, Felt roller, Microfiber cloth
Application	Wear gloves and ensure sufficient ventilation
Cleaning materials	Recoat Cleaner, Water
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	A maximum of 24 months in case of dry storage and a temperature of 5°C to 30°C.

Recoat® Stix Flex



PRODUCT DESCRIPTION

- High performance adhesion promoter.
- Seals the substrate.
- Especially formulated for soft and flexible substrates such as leather and soft closed plastics.

AREA OF APPLICATION

Recoat Stix Flex is suitable on leather, skai, soft closed plastics as handrails and handles. Recoat Stix Flex dries very quickly (ca. 15min.) enabling to apply the topcoat at very short notice.

JOB DESCRIPTION

Clean the substrate with Recoat Cleaner (see TDS).

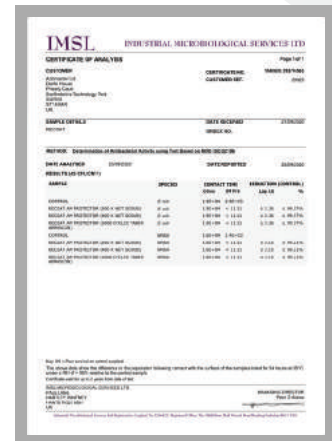
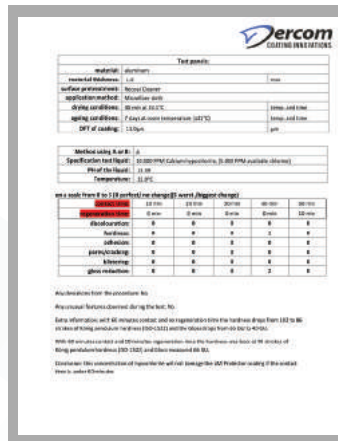
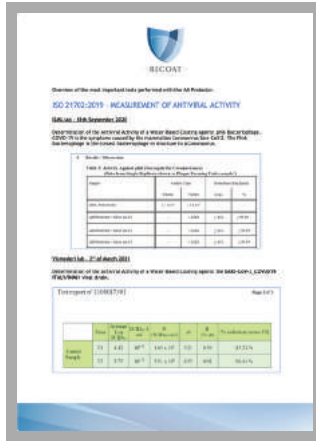
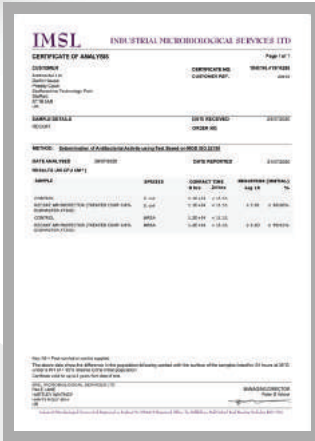
Divide Recoat Stix Flex evenly over the substrate, rub gently, do not polish. Drying time appr. 15 minutes. Then finish with Recoat AM Protector® Flex.

User advice: preferably use a microfibre cloth for application.
After use store the microfibre cloth in a seal bag or airtight packing, to prevent the cloth from drying out. This will enhance the lifetime of the cloth

TECHNICAL PROPERTIES

Base	Clear waterborne primer on acrylate basis
Approximate specific density	1,02 Kg/L
Volume fixed percentage	13 %
Application temperature	10 - 30 °C
Relative humidity	A maximum of 80%
Output	Approx. 60 m ² - 80 m ² / liter The output depends on the application method, roughness, structure and porosity of the substrate.
Drying at 20 °C	Dry to recoat after appr. 15 minutes.
Colour	Clear
Gloss strength	Semi Gloss
VOC content	26 g/l. The product is suitable for indoor and outdoor use. EU-limit for this product: 140 g/l.
Application by means of	Microfiber cloth
Application	Wear gloves and ensure sufficient ventilation
Cleaning materials	Recoat Cleaner, Water
Thinning	Ready to use
Transport	Temperature during storage, transport and application minimum 5° C and maximum 30°C at a relative humidity of Maximum 85%
Storage stability	A maximum of 24 months in case of dry storage and a temperature of 5°C to 30°C.

Tests & Certifications



Some of the tests and certifications performed in renowned specialized international labs are featured below:

ISO 21702:2019 Measurement of Antiviral Activity

ISO 22196 Measurement of Antibacterial Activity

ISO 2812-4 & ISO 11998 Cleaning Testing

ISO 2812-4 Determination of resistance to liquids by spotting method, confirm Modified ISO 11998 to cleanability

ISO 21702:2019 "Measurement of antiviral activity on plastics and other non-porous surfaces"

ISO 21702:2019 Determination of the Antiviral Activity of Water-Based Coating against phi6 (Surrogate for Coronaviruses) Bacteriophage

MOD ISO 22196 Determination of Antibacterial Activity using Test

ISO 22196:2011 Antimicrobial Test Certificate Number: 1040146.419/14288

ISO 22196:2011 Antimicrobial Test Certificate Number: 1040600.293/14563

Other tests are available on demand



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