



NANO INNOVATIONS AUSTRALIA

ANTIMICROBIAL SYSTEMS & SOLUTIONS
"MAKING YOUR WORLD SAFER FOR EVERYONE"

Floor Hygiene+ Solvent Free AM

PDS 20014

Product Description

Nano Safe Innovations Floor Hygiene+ Solvent Free AM is a two-component epoxy antimicrobial floor coat, specially designed for interior floors. Formulated with cationic composites dispersed in the epoxy resin, it provides a durable, hard-wearing finish, while effectively inactivating pathogens on contact. Nano Safe Innovations Floor Hygiene+ Solvent Free AM is active against the growth of micro-organisms like viruses, bacteria, moulds, fungus and yeasts. The antimicrobial system will not leach out, remaining safe and active through the life of the product. Nano Safe Innovations Floor Hygiene+ Solvent Free AM has been independently tested against SARS-Cov2 (virus responsible for COVID-19) by the National Immunogenicity & Biologics Evaluation Centre, with a demonstrated efficacy of greater than 99%. Satisfies international standard ISO 21072.

Product Uses

- Health Care Facilities
- Age Care and Retirement Facilities
- Food Processing Plants
- Medical/Pharmaceutical Industry
- Clean Rooms
- Warehousing
- Laboratories
- Education, Universities, Pre School and Colleges
- Shopping Centres and Retail Stores
- Transport Facilities and Public Meeting Areas
- Warehousing and Storage Areas
- Plant Rooms
- Kitchens and Food Services
- Washrooms, Toilets and Change Rooms



Product Specifications

Nano Safe Innovations Floor Hygiene+ Solvent Free AM two-component epoxy floor coat provides a high build, heavy duty air drying finish for concrete and masonry surfaces. Ideal for heavy traffic environments and chemical exposure. Nano Safe Innovations Floor Hygiene+ Solvent Free AM is non-flammable, and features a low VOC and low odour formulation, providing a safe and comfortable application process. Can be used with Nano Safe Innovations Slip Resistant Additive to provide a safer, non-slip environment on horizontal or inclined floor surfaces, and stairways. Available in a range of colours.

Features & Benefits

- Antimicrobial 2-component epoxy floor coat
- Heavy duty 100% solids film build
- Low odour and solvent free
- High solids, low viscosity
- Superior abrasion resistance
- Chemical resistance
- Non-flammable
- Seamless coating
- Provides a durable hard-wearing finish
- Versatile coating for all applications
- Abrasion resistant, easy to clean coating
- Moisture resistant
- Fast cure
- Slip Resistant (With Nano Safe Innovations Slip Resistant Additive)
- Easy to clean finish

Guarantee**

Floor Hygiene+ Solvent Free AM coating is guaranteed against cracking, flaking, blistering or peeling when applied in accordance with the manufacturer's written specifications and instructions to a sound substrate that has been properly prepared. Nano Safe Innovations has built a strong reputation in the surface coatings sector, and has always striven to engineer products to exceed expectations. Nano Safe Innovations' experienced technicians, working with advanced technology continue to provide solutions to all our customer needs.

Quality Assured

Nano Safe Innovations has manufactured all of their products to suit the harsh Australian environment and conditions. Our manufacturing facility is certified by independent Quality Assurance organisations for ISO 9001:2015. Nano Safe Innovations is proudly Australian Made & Australian Owned.





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Areas of Application

For use on concrete and masonry floor surfaces. Nano Safe Innovations Floor Hygiene+ Solvent Free AM is easy to apply to both horizontal and vertical surfaces and is quick drying. This coating can be used in areas that require constant cleaning and its superior durability and chemical resistance provides this. With the addition of Nano Safe Innovations Slip Resistant Additive, the coating gives additional safety on wet areas. Slip resistance is recommended on sloping or steep surfaces.

Application Method

Brush	Synthetic brushes such as Polyester, and Natural Bristle. Check with manufacture for suitability.
Roller	Polyester, Lamb Wool, and Fibre Nap rollers are best suited for this product. Do not use foam or sponge type rollers. Regular Nap 10 to 12mm for smooth surfaces, Long nap 22 to 32mm for medium and course surfaces.
Spray	Consult with Nano Safe Innovations Customer Service.

Technical Data

Colour	White, Black, Grey, Clear and Australian Standards AS2700 colours
Sheen Level	Gloss (90% @ 60 head)
Solvent Resistance	High resistant to aromatic & aliphatic hydrocarbons, esters, regular alcohols, ketones.
Acid & Alkalis Resistance	High resistant to some acids, alkalis as well as salt solutions both alkaline and neutral.
Toxicity	Dry film is not toxic
Flammability Flash Point	Non-Flammable (unless mixed with Nano Safe Innovations 2K Xylene Thinner)
Coating Heat Resistance	Dry film coating dry air resistant to 80°C
Volume Solids	100% (volume solid amount will vary depending on colour)
Thinning & Clean Up	Between 3 - 5% using only Xylene Thinner depending on weather and application.
Theoretical Coverage*	6-8 sq. m2 / litre at 50 microns DFT. Depends on surface profile*
Wet Film Per Coat (microns)	Minimum - 95 / Maximum - 140 / Recommended - 125
Dry Film Per Coat (microns)	Minimum - 40 / Maximum - 60 / Recommended - 50
Drying Time (at 25°C & RH 60%)**	Touch dry 1-2 hours** / Recoat 4 to 6 hours ** (Dependant on ventilation)
Full Cure Time	24 hours**
Mixing Ratio	3 to 1 by weight. Ensure thorough mixing with a power tool.
Density, Kg/Ltr	1.07 to 1.09
Maturation Time	1 minute (remix product after this time before application)
Pot Life (at 25°C & RH 60%) Normal	30-45 minutes**
Packs available	4 litre (5kg) & 15 litre (18.75kg) packs

Surface Preparation

Cleaning and Preparation: Remove all dust, dirt, mould, mildew, grease and oil and all surface contamination by cleaning and washing. Test previously painted surfaces for adhesion, and remove all peeling, flaking and poorly adhesive coatings. Treat all mould, mildew areas before coating. Remove any oily deposits using high-pressure water wash at 2,000 –3,000 p.s.i. using a free-rinsing alkaline detergent. Rinse the surface well with fresh water to remove all cleaning agent residue and contamination. Fill all substrate defects with a suitable 2K based compound and allow to dry.

Concrete Floor Grinding: Inspect and test condition of floor joints. If joint sealant is significantly degraded, it will need to be removed and the joint clean and free of all debris and contamination. Fill cracks, blowholes or other surface defects in the concrete with a 2K epoxy filling mortar and allow to dry. Diamond grind to remove laitance and create a surface profile to match to the concrete standard of CSP 2-3. Use a hand-held sander to grind around the perimeter of the floor, to ensure that the profile and cleanliness of the entire floor is consistent

Allow new cement render and masonry surfaces to cure for 28 days before painting, check pH level is lower than 10 before painting. Unpainted metal surfaces will require a suitable metal primer before the application to provide adhesion and corrosion protection.

Contact Nano Safe Innovations Customer Service for complete specifications on surface and substrate preparation.

Note: If when rinsing the surface, the water beads on any area of the surface, then the surface has contamination and needs further cleaning.





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Substrate Moisture / Condensation Test

Average drying times after high pressure water cleaning will vary with season, climate, ventilation, and location as well as the porosity of the surface. It is recommended to wait 3-7 days and then perform a condensation test to determine surface dryness. To do this, tape a small sheet of plastic (0.5m x 0.5m) to the surface by means of adhesive tape in the morning. Ensure that the seal is airtight. Around mid-afternoon inspect the surface to see if any condensation has formed under the plastic sheet. Any condensation indicates that the surface is too wet to paint. Wait 24 hours and perform the test again. You must continue with this test until no condensation forms under the plastic after the wait period.

Note: Painting over a wet or damp surface will result in the coating to blister and peel. It will also cause the coating to bloom causing a fine white powdery deposit to form on the surface.

Application

Stir the contents of the Base before mixing with the Hardener in recommended ratio. Mix the two together and allow 1-minute maturation. It is recommended that on suitably prepared bare concrete, the first coat of Nano Safe Innovations Floor Hygiene+ Solvent Free AM is applied with 10% thinning to result in a DFT of approximately 50 microns. On hot days, addition of thinner may be required periodically to maintain an even flow. Allow film to dry thoroughly and evenly before application of Nano Safe Innovations Floor Hygiene+ Solvent Free AM (usually after 4 hours, in ideal weather conditions). The second and subsequent coats may be applied with 3-5% thinning (as dictated by ambient conditions). Do not apply more than three coats. Apply using roller or brush (brush only for small areas and cutting in). Use a 10mm nap roller on smooth surfaces, and a 12-16mm for coarse surfaces.

Coating Maintenance

- Washing the painted surface periodically will maintain the look of a newly painted surface longer. Clean the surface with a diluted mild detergent and rinse well with clean water.
- Do not use scouring pads, abrasive brushes, high pressure washing or harsh solvent to clean the painted surface. These will damage the paint film and cause premature failure of the coating.

Mixing and Colour Check

Stir each can thoroughly until the contents are uniform. Use of a power mixer recommended. Mix the contents of both packs together thoroughly using a power mixer immediately prior to use. Allow 1-minute maturation time for the chemical reaction to take place, remix and apply without further delay.

Check colour to the colour chart/standard prior to application. Intermix multiple base containers together to ensure colour consistency. Replace and secure container lid during painting to prevent the paint drying within the container. Usable time, or "pot life" once mixed is 30-45 minutes, (dependent on weather conditions and ventilation), discard any mixed product after this time. Check colour to the colour chart/standard prior to application.

Flammability & Transport

- Non-flammable (when not thinned)
- Keep away from heat and flame, eliminate any source of ignition.
- Ensure container is upright with lid secure.
- Ensure the container is secured in the vehicle for transport.

Environmental

- Do not wash coating equipment and allow waste to enter drains and waterways.
- Do not dispose of unwanted coating and thinners that will enter drains and waterways.
- Refer to state EPA web site for disposal details.





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Safety & Precautions

- Do not apply when surface temperature is below 10°C or over 35°C
- Do not apply in environments of high humidity/moisture, or if pending rain is a possibility.
- Apply in calm fine weather conditions and only during daylight hours.
- Do not apply early morning if dew or frost is present.
- Use only the recommended thinner for dilution and cleaning.
- Check paint colour to the colour chart/standard prior to application
- Provide the necessary PPE protection to applicators.
- Provide adequate ventilation during use.
- Keep out of reach of children.
- Check crosscut adhesion test of old coating before repainting.
- Apply a test sample for compatibility of this product over a small test area.

First Aid

If swallowed, do not induce vomiting. Give plenty of water to drink. Contact a doctor or the Poisons Information Centre. Phone 131126 (Australia).

If in eyes, hold eyes open and flood with water for at least 15 minutes. Seek medical attention if any irritation persists.

If on skin, remove contaminated clothing, wash skin thoroughly with soap and water. Do not use solvents.

If affected by inhalation, remove person to fresh air. If breathing difficulties persist or occur later, contact a medical doctor.



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*Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times

**Practical coverage may depend on surface profile, method of application and losses. Higher film thickness will lead to lower coverage.

***View teams and conditions at www.Nano Safe Innovationscs.com.au or request a copy by contacting Customer Service.

The technical information and suggestions for use and application are given in good faith. Since conditions of use are beyond the manufacturer's control, information contained herein is without warranty, implied or otherwise. The manufacturer does not assume any liability for any loss or injury resulting from the use of the product. Cooler temperature, higher film thickness and higher humidity conditions will require longer drying times.

