



NanoSeal Flex

Elastomeric, single component, acrylic waterproofing and protective coating

Description

Nanoseal Flex comprises a single component water based, high solids, 100% acrylic copolymer waterproof membrane coating. Nanoseal Flex is a crack accommodating coating containing additives to inhibit the growth of mould and resist bacterial growth and resists aggressive elements.

Uses

Use as a waterproofing membrane to most types of buildings, walls. Nanoseal Flex has approval for the safe encapsulation of asbestos. It provides a protective waterproofing skin over polyurethane foam, protecting the PU foam from UV and weather attack. On roofs and balconies, Nanoseal Flex provides a durable, non skid, waterproof finish which will accept regular foot traffic. When applied as a multi-layer system incorporating reinforcement fabric, Nanoseal Flex is also suitable for waterproofing concrete decks subject to light vehicular traffic. Nanoseal Flex is suitable for application to many common substrates including concrete, fibrous cement products, metals, timber and bituminous membranes. Some special priming may be required.

Advantages

- Safe to use, water based acrylic formulation.
- Easy water cleanup.
- One component - readily applied direct from pail.
- Excellent resistance to UV, weathering and CO.
- Excellent build properties enable application to both horizontal and vertical surfaces.
- Lightweight no topping required.
- Can be applied to a wide range of substrates.
- Various colors available. Color fast.
- Highly flexible - accommodates movement and minor cracking of substrates.
- Excellent long term durability.
- Fast application.
- Remains flexible through use of high grade 100% elastomer acrylic polymers.
- Low maintenance costs.
- Reduced energy cost due to heat reflectivity.
- Resistant to foot traffic.
- Excellent dirt releasing ability.
- No need to remove existing system in maintenance situation e.g. existing sheet membrane, therefore reduces program time, noise, dirt, debris etc.

Properties

Color:	White, Grey, Green
Solid Volume:	60% (ASTM D2697)
Tack free:	40 minutes (30°C, 50% RH)
Recoat:	2 hours
Fully dried:	7 days
Application temp:	5 - 40°C
Hardness:	55-65 shore A (ASTM D2240)
Elongation:	400% ±30 at 24°C
Bond Strength:	Exceeds cohesive strength of coating. (ASTM C297) (ASTM D412)
UV Resistance:	No effect after 5,000 hours (ASTM D822)
Water Permeability:	Highest resistance (Class E ASTM E514-7A)

Packaging

16 ltr & 20 ltr Pail

Storage

Store in dry and cool place below 35°C. Protect from direct sunlight.

Shelf life

12 months if stored properly in original unopened packaging.

Instruction for use

Surface preparation:

Clean the surfaces which shall receive the coating of all dust, dirt, moss, oil and grease, loose particles, cement laitance and all other deleterious materials which will affect the adhesion of the coating with the substrate. Cracks and potholes shall be repaired with concrete repair mortar with the consultation of Nano Vision representative. Clean the surface of all rust scales. This can be achieved by wire brushing or grit blasting.



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Priming:

Nanoseal Flex shall be diluted with 20% water and applied as primer coat on the concrete surface to seal the pores and stabilize the surface. The primer also functions as an adhesion promoter for the top coats. This primer coat can be applied by a brush, roller or airless spray and allowed to dry completely before the application of acrylic coating.

Application:

Mix the contents of the pail prior to the application to remove any sediment. Can be applied by soft bristled brush, roller or an airless spray. When applying by airless spray then dilute the coating with approximately 5% water to reduce the viscosity of the coating. It is important to ensure that each coat has to be cured totally before applying the next coat. The second coat should be applied at right angle to the first at the same coverage rate, to ensure a full unbroken coating to the substrate. For improved strength and flexibility, embed a 650,500 g/m² non woven geo-textile membrane or Polyester whilst the first coat is still wet on all corner joints, fillets and pipe penetration joints. Allow the coating to cure fully for 72 hours to achieve its full properties.

Coverage: 1 Ltr /m²/mm thickness.

Cleaning & disposal

Clean all the tools with water after use. Hardened materials can be removed mechanically only. Allow the waste to cure. Seal it into a suitable container and bury in landfill. Use licensed waste disposal contractor and consult the local authorities when disposing.

Precautions /limitations

Do not apply Nanoseal Flex to surfaces that have not been properly cleaned or are unsound. Do not apply in rain or when rain is expected before initial set has taken place. Do not apply to frozen or frost filled surfaces or when the temperature is below 4°C.

Health & safety

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes immediately with fresh water. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.