



DRI-GARD NS 280

Anti-condensation coating

Water-based paint-like coating that prevents condensation from forming on cold and dual temperature surfaces. It works as a result of a reaction that continually adsorbs and desorbs water vapour through linked micro-cells without building up to form condensation.

FEATURES/BENEFITS

- Prevents condensation from forming
- Easy to apply & touch up
- Does not contain any harmful substances
- Low VOC
- Compatible with most substrates
- Does not promote growth of fungus, mould or mildew
- Resistant to mild acids, alkali, detergents, mineral spirits, esters, potash and ammonium nitrate

APPLICATION AREAS

- Cold pipes
- Walls, ceilings and beams
- Metal buildings
- Switch gear enclosures
- Pumps & water tanks
- Window frames
- HVAC ducts
- Various substrates, including concrete, steel, PVC, aluminium, copper, polypropylene, paint and wood

PRODUCT DATA

Appearances / Colours	White / Light grey (tintable)
Packaging	5kg or 20kg pails
Shelf Life	12 months from date of production
Storage Condition	Dry conditions at temperatures between 5 - 30 °C. Keep away from direct sunlight.

TECHNICAL DATA

Origin	Water-based acrylic
Solid Content	51% by weight
Viscosity	115 KU
Density	1.26 kg/L

APPLICATION CONDITIONS

Coverage	Wet coverage for smooth, non-porous surfaces is ~0.47 kg/m ² (WFT @ 400micron). Coverage on porous, profiled, or uneven surfaces will vary
Service Temperature	Continuous service temperature at coated surface between 2°C – 114°C.
Drying Time	At 22°C, 50%RH, 400 micron thickness: <ul style="list-style-type: none"> • Touch dry: 60 minutes • Dried through: 8 hours • 95% cure: 36 hours
Protection Required	Avoid exposure to cold, freezing or rain for at least 36 hours.
Application Method	Brush / spray

SUBSTRATE

Before applying, ensure surface is clean, dry, and free of liquids, oil, grease, and dirt. Also ensure that surrounding areas are protected from spills and over spray. Dri-Gard NS 280 dries quickly and is difficult to remove.

A suitable primer may be required before applying Dri-Gard NS 280 when applying on metal substrates. Please contact Dritech Chemicals Sdn. Bhd. for more information or for advice on a suitable primer to use.

The surface to be applied should not be subjected to formation of condensation for at least 36 hours after application is completed, or longer in cool or humid conditions.

APPLICATION

Apply by spray or brush:

- Spray application: use an air assisted airless sprayer with 19/1000 to 39/1000 variable spray tip, 75 to 100 psi, and about 15:1 ratio at gun. To avoid premature equipment wear, use corrosion resistant pumps and fittings.
- Brush application: use a good quality brush suitable for water-based paints. Keep your brush loaded and use short strokes. Do not brush out, keep brush loaded at all times. Apply the second coat at right angles to the first coat. This will make a smoother finish and ensure that the surface is more evenly coated. Lightly tapping or vibrating the painted surface right after application of Dri-Gard NS 280 can help make a smoother finish.

Stir before each use until consistent throughout pail and stir every 30 minutes during use. Heavy particles settle to the bottom of the pail, so please be sure to mix them back into the solution.

Do not thin, use full strength. Seal pail with lid when not being used.

Ensure each coat is dry to touch before overcoating. After all coats are fully dried and cured, check for condensation. If required, apply additional coats.

TOOLS

Clean all tools and application equipment with water without delay before Dri-Gard NS 280 dries. After it is dried, scrape or sand off the excess, or use aromatic solvents, such as toluene or xylene, as per solvent use regulations.

LIMITATIONS

- Do not paint, coat or cover Dri-Gard NS 280. It must be left open to the surrounding air to allow it to work.
- It is recommended to conduct a trial before proceeding with full application to ensure results will be acceptable. This product is for industrial use, indoors and outdoors.
- Water vapour in surrounding air will continually penetrating the coating, hit the substrate, and then cycle out. Hence, a suitable primer should be applied on substrates that are at risk of corrosion or rust.
- Dri-Gard NS 280 does not provide any thermal insulation and is not a vapour barrier.

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in

accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.