

Technical Data Sheet

Effective: 01.07.2014

Night Star

Specialty Photoluminescent Coating

Description

Night Star is a photoluminescent (glow in the dark) Coating. This highly abrasion resistant, single component, product contains no VOCs (volatile organic compounds) and is almost odourless. It is a highly chemically and wear resistant coating.

Uses

Night Star is used in the following applications:

- As clear demarcation of escape routes or emergency exits.
- Demarcation of stair treads landings, Exits and entrances, danger zones, Congregation and smoking areas.
- for safety measures in public transport and in production stations
- Marine craft, ships and other marine applications.
- Roadmarking
- Locations which are difficult to illuminate

Advantages

Night Star assists in the reduction of energy costs, where artificial lighting can be significantly reduced along with other advantages such as:

- Instant, intensive glow after removal of light source. The surface will continue to glow for at least 10 after light source is extinguished
- Very rapid recharge when exposed to natural or artificial light.
- Single component liquid which is directly applied from the container.
- No mixing of components.
- As good as odourless

- Cures quickly, to a durable surface with consequent reduced down time.
- Is applied in a single coat over a white or light coloured surface e.g. **Compass Coatings Polarcoat**
- Superb adhesion to wood, metal, gypsum plaster, coated surfaces, concrete & masonry, glass & ceramics and many other surfaces.
- Odourless, no vapours or dangerous solvents
- Seamless and joint free, monolithic surface
- Fast curing from -5°C
- Isocyanate free

Surfaces

Should always be applied to a sound and white or light coloured surfaces for optimal results

- Uncoated metal
- Concrete
- Masonry
- Gypsum
- Glass
- Ceramic Tiles
- Treated or untreated wood

Where a quality base coat is needed, particularly in the case of flooring, **Compass Coatings Polarcoat is recommended**

Colour

Light Yellowish Green

Directions for Use

Surface Preparation

Surfaces must be sound, clean, free of dust and loosely adhering particles, oil, fats, mildew and algae. Concrete and masonry surfaces should not have a

moisture content above 8%. Surfaces should be free of laitance and efflorescence as well as any other deposits that may interfere with the bond to the concrete or masonry.

Before applying **Night Star** surfaces must be wiped down with a cleaning fluid such as denatured alcohol or other appropriate cleaning method ensuring that no residue remains.

The product must be gently stirred before use taking care not to entrain air as this will create small air bubbles in the coating which may form small craters on curing. Should this occur allow the product to stand with the lid in place for between 5 and 10 minutes to allow air to escape.

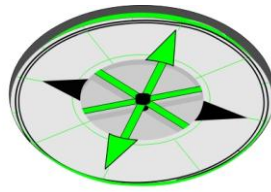
After preparation **Compass Coatings Polarcoat** should be applied as base-coat, where surfaces are not, already white or very light pastel shades. **Polarcoat** is applied at ca. 0.13l/m² (ca. 0.13mm thick) by brush or roller. Allow to cure until a subsequent coat will not disturb the surface (ca. 1 hour depending upon temperature and humidity).

Application

Apply a moderate to generous coat of **Night Star** at a minimum rate of 0.5l/m² (ca. 0.5mm thickness). Up to a particular thickness only will greater thickness achieve better glow properties?

Curing

The surface of **Night Star** hard after 1.5 hours and foot trafficable after 4 hours depending upon temperature and humidity.



Cleaning

Uncured **Night Star** can be removed with White Spirits. Cured **Night Star** can only be removed mechanically.

Application Conditions:

Ambient Temperature - 5°C to + 45 °C
Surface Temperature - 5°C to + 55 °C

Note:

Do not apply over frozen matter!

Coverage:

Night Star

Smooth Surfaces- min. 0.5l/m²
(ca. 0.5mm thick)

Drying time:

Ca. 2 hours at 15°C and 50% rel. Humidity

Fully trafficable ca. 12 hours after 15°C and 50% rel. humidity. Fully cured after 14 days

Shelf Life

Unopened Containers:

9 months from production.

Caution:

Carefully read the Safety Data Sheet for **Polarcoat** before use. Avoid contact with eyes and skin as this may cause irritation. Should contact with eyes occur, rinse for 15 minutes under running water. If swallowed do not induce vomiting and seek the advice of a physician.

The information details given on performance are approximate. These can be affected by substrate, environment, type of building element being coated etc.

All information given is based upon a coating thickness of **Night Star** of ca. 0.5mm.

Important Notice:

Please always consult our website at www.Compass-Coatings.co.uk to check that you are reading the most up to date data on this product.

Note:

The information contained in this technical data sheet is

Basis	Synthetic Photoluminescent Polymer	
Shelf life and storage conditions	Unopened 9 months, Storage: Dry and +5 - 32°C	
Application Temperature	-5 - 45°C (Ambient) -5 - 55°C (Surface)	
Thickness (smooth surface)	ca. 0.5mm	
Foot trafficable	after ca. 4 hours at 15°C and 50% rel. humidity	
Density	1 l = 1,5kg	
Drying time (touch dry)	ca. 2 hours at 15°C and 50% rel. humidity High humidity shortens curing time	
Full Cure	after ca. 14 days	
Coverage	Smooth surfaces: ca. 0.5l/m ² (Roughness, Unevenness, highly porous surfaces must be taken into account)	
Packaging/ Article	Packaging	Article No.:
Night Star	Bucket 0.5litre/0.75kg	NS8000-66
	Bucket 1litre/1.5kg	NS8001-66
	Bucket 2.5 litre/3.75 kg	NS8002-66

based upon our experience and is therefore not binding. All data are laboratory values, which may differ in practice. Therefore, these represent no assurance of characteristics. This data is given in order to allow compliance with respective local specificities. The variety of possibilities and the specific project details in combination with the products cannot be handled within the framework of this data sheet. If you have questions, please contact us. It is the user's responsibility to be informed about the characteristics of the products as well as the technical information and proper processing. Please take careful note of all manufacturer's specifications, e.g. information on surface pretreatment. A specific result cannot be guaranteed due to differing prevailing individual conditions, which can lead to differing result. Preliminary tests are advised to test for the desired result.