

NASWEY Coating



Product Description

NASWEY is a high-tech, two-component, high-solid anti-corrosion coating launched in 2018 by PodLee International (USA). Its unique formulation enables underwater application. The distinct mineral crystal flake structure provides robust rust resistance while also resisting aquatic organisms, protecting structures from bio-corrosion.

This product combines chemical and biological corrosion protection, making it ideal for underwater pipelines, structural components, and "sweating" or humid metal surfaces. It can be applied directly in water.

Intended Uses

Suitable for corrosion and fouling protection of:

Dock steel pipe piles.

Offshore wind turbine foundations.

Underwater pipelines and components.

"Sweating pipelines".

Advantages

Underwater application and curing – Significantly reduces construction costs.

Integrated anti-corrosion and anti-fouling – Lowers expenses and extends maintenance intervals.

Typical Characteristics

Item		Test Data	Testing Standards
Cured Density (g/cc)		1.8	–
Solid Content (%)		95	ASTM D3960
Pencil Hardness (H)		4	ASTM D3363
Water Resistance (1000h)		Pass	ASTM D2247
Adhesion (psi/MPa)	Applied Under Water	1378 (9.5)	ASTM D4541
Chemical Resistance (90 Days)	HCl (10%)	Pass	ASTM G20
	NaOH (10%)	Pass	
	NaCl (10%)	Pass	
Salt Spray Test		10000	ASTM B117
Service Temperature (°F/°C)		-22 (-30) – 194 (90)	–

Package

10 KG/Kit.

Surface Preparation

Proper surface preparation is critical for optimal performance:

For underwater application: Remove marine biological residues using power tools.

For "sweating pipelines": Remove loose rust and old coatings (derusting grade ST2).

Mixing

Ensure ambient temperature is 50 – 104°F (10 – 40 °C).

Mixing ratio: 4:1 (By Weight).

Weigh components accurately and stir mechanically for 3 – 5 minutes.

Application

Apply using a brush or roller.

Single-coat thickness: 200 – 250 µm.

For marine environments: Apply at least 2 coats (total thickness 400–500 µm).

Minimum recoating interval: 4 hours.

Coverage

Based on a 500 µm thickness: 1 kg kit will cover 1.06 m² (11.4 ft²)

Pot Life After Mixing

50°F (10°C) – 2 h, 70°F (25°C) – 1 h, 104°F (40°C) – 0.5 h

Curing Schedule

Temperature	50°F (10°C)	70°F (25°C)	104°F (40°C)
Surface Dry (h)	5	3	2
Complete Curing (h)	20	15	10

Clean Up

Clean tools immediately after use with solvents (acetone, xylene, alcohol, etc.).

Storage

Store between 10 °C (50 °F) and 32 °C (90 °F).

Unopened product shelf life: 1 year.

Safety

Before using any products, review the appropriate Material Safety Data Sheet (MSDS) or Safety Sheet for your area. Follow standard confined space entry and work procedures, if appropriate.