

JIVADOI VCOat CFM

Spray applied polyurethane waterproofing membrane

DescriptionNivapol Polycoat CFM is a solvent free, two component, coloured waterproofing membrane. It is reactive and can only be applied by special, two component spray equipment.

Areas of ApplicationPolycoat CFM is intended for use in general waterproofing applications such as car park decks, podium decks, cut and cover tunnelling, bridge decks under asphalt and concrete, and other areas where there is no requirement for a fire retardant system.

Using the appropriate primer, Polycoat CFM can be applied to most substrates including concrete, galvanised steel, aluminium, UPVC, glass reinforced polyester etc.

Features and benefits

Polycoat CFM system offers distinct advantages to owners and specifiers

- Fast reacting
- High build capability
- Application to vertical surface without runs
- Easy application to complicated details
- Fast installation
- Monolithic no laps, welds or seams
- Fully bonded
- High water vapour permeability low risk of blistering
- Excellent mechanical properties
- Excellent crack bridging capability
- Resistant to puncture
- Resistant to standing water
- Thermoset does not soften at elevated temperatures
- Remains elastic at low temperatures-Tg approx. - 45°C
- Solvent free

Estimating data

Polycoat CFM is normally applied at $1.6 - 2.1 \text{ kg/m}^2$ This corresponds to a thickness of approx. 1.5 – 2.0 mm.

Application

Surface Preparation

The substrates to be coated have to be firm, dry and loadbearing, free of loose and brittle particles as well as substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. Pretreatment of the substrate by grit or shot blasting, highpressure water jetting, grinding or scarifying is only necessary when the primer or scratch primer is very dirty or, when the recoating interval has been exceeded. After pre-treatment of the substrate the bond strength of the substrate must be at least 1.5 MPa. The temperature of the substrate must be at least 3°C above the current dew point temperature.

The substrate to be coated must be protected against rising damp (back pressure), if required.

Polycoat CFM can only be applied by means of a suitable two component spray machine. The choice of machine depends to a large extent on the type and size of work contemplated. For advice, please contact your local Nivapol technical representative.

Polycoat CFM should only be applied to properly prepared substrates.

Polycoat CFM is available with the Part A coloured and the Part B unpigmented. This results in a uniform grey colour of the sprayed material thus giving the sprayer a visual control of the quality of the mixing as machine faults become immediately obvious. This can reduce costly clean up time and material wastage. Due to the fast reaction it is possible to rapidly build thicknesses from 1.0 to > 6 mm.

Surrounding areas should be protected from overspray by masking off with e.g. polyethylene sheet. or paper. Care should be taken to prevent spray mist being carried by wind by erecting suitable barriers. Polycoat CFM should be applied within the recommended temperature and relative humidity

limits. The temperature of the substrate should be min. 3°C above the dew point.

Primer

Ensure primer has cured to a 'tack-free' state prior to the application of Polycoat CFM. Use the following guide to select the appropriate primer:

Substrate Primer

Standard EP Primer Concrete

Other

substrates

Contact your local Nivapol technical representative

Standards compliance

BD49/99 (waterproofing of concrete bridge decks. ASTM C957 / C957M ASTM C836 / C836M

Top Coats and Wear Coats

Polycoat CFM does not have sufficient UV and weather resistance to be used in permently exposed applications without protection. A number of top coats and wear coats are available which can be broadcast with dry silica sand to provide a hard wearing, non-slip surface Other top coats may be more suitable for specific applications, contact your local Nivapol representative office for details. Note: if rain falls or dew occurs on the surface of Polycoat CFM then the membrane must be dried and the primer applied prior to the application of any wear coat or top coat (even if the re-coat interval has not been exceeded). In the tropics any exposed Polycoat CFM must be treated as above if left overnight.

Contact details

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Post application Quality Control

- 1. Adhesion test
- 2. Thickness control test
- 3. Visual test for pinholes and blisters

Packaging

Nivapol Polycoat CFM is supplied in 200 L metaldrums or 1000 L IBC containers.

Shelf life

Minimum 12 months stored in original containers under dry conditions at a temperature between 15-25°C. Do not expose to direct sunlight.

Important

When switching products it is essential to fully empty the machine tanks before filling with the new product.

Precautions EU Regulation 2004/42 (Decopaint Guidline)

This product conforms to the EU directive 2004/42/EG (Deco-Paint directive) and contains less than the maximum allowable VOC limit (Stage 2, 2010) According to the EU directive 2004/42, the maximum allowable VOC content for the Product Category IIA / j is 500 g/l (Limit: Stage 2, 2010). The VOC content for Polycoat CFM is < 500 g/l (for the ready to use product).

Warnings and precautions

Wear safety gloves, goggles and protective clothing. Avoid contact with the skin and eyes. In case of eye contact, seek medical attention. Avoid inhalation of the fumes. Respiratory protection must be worn when spraying or when in the vicinity of the spraying operation. When working well ventilated areas combined charcoal filter and particle filter masks (A-P2) should be worn. When working in less well ventilated and in confined spaces, air-fed helmets are to be worn by sprayer and assistant(s). When working with the product do not eat, smoke or work near a naked flame. The regulations of the local trade

association and/or other authorities, regulating safety and hygiene of workers handling polyurethane and isocyanates must be followed. For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the Material Safety Data Sheet (MSDS) from our office or our website.

Quality Assurance

The Nivapol Polycoat CFM system is backed by the unique Quality Assurance Programme and on-site technical support supplied by Nivapol.

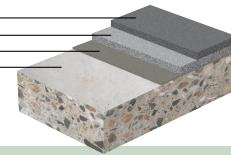
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Nivapol Polycoat CFM

Nivapol Polycoat tackcoat (if required) Nivapol Polycoat CFM 1. coat membrane Concrete or Steel Primer Concrete



T	Mixing ratio A:B		
	Density at 23°C		
40	Viscosity at 20°C		
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Gel time at 23°C (hand mixed) Fully cured at 23°C

Substrate temperature Max. relative humidity By weight 100 : 30 By volume 100 : 25 Part A 1.04 g/cm³ Part B 1.23 g/cm³ Part A 8000 mPas Part B 60 mPas

45 min. 2 days Min.5°C Max.60°C Max. 85%

Technical data cured material (sprayed film except where stated)

	T	Data	Methods	Result
		Thickness		Min. 1.5 mm
		Shore A hardness (sprayed)		80 After 28 days
		Tensile strength	DIN 53504	8 N/mm ²
	2	Elongation	DIN 53504	400%
		Crack Bridging ability		Min. 2 mm
1	_	Temperature resistance		Max 90°C
		Waterpenetration		Impervious
	U	Chemical resistance	See separate datasheet	
	a.	Tear strength	DIN 53515	16 N/mm
	0	Puncture resistance	ASTM E154	Min. 175 KGF
	Hall.	Adhesion to concrete	BS/EN 24614	Complies

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