

POLYURETHANE SF Coating

8000

Description:

POLYURETHANE SF Coating 8000 is a two component sprayable solvent free Polyurethane based on special polyol and aromatic Isocyanate resins with an excellent abrasion resistance and flexibility on primed concrete and steel surfaces.

Recommended use:

As lining on internal and external piping, sealed concrete and buried steel substrates.

Service temperature:

Dry: Maximum 80°C **Wet:** Maximum 50°C

PHYSICAL CONSTANTS:

Colors/Shade No:	Grey /7035
Finish:	Glossy
Volume Solid:	100% (Curable material)
Weight Solid:	100% (Curable material)
Theoretical spreading rate:	0.66 m ² /liter 1500 µm. DFT.
Flash point:	96°C
Specific gravity:	1.30 – 1.35 kg/liter
Dry to touch: Max.	1 hours at 20°C
Hard Dry:	Max. 4 hours at 20°C
Fully cured:	7 days at 20°C
V.O.C.:	0 gr/liter
Shelf life:	Base : 2 Years (25°C) from time of production. Depending on storage condition, mechanical stirring may be necessary before usage. Hardner : 12 Mounth (25°C) from time of production..

APPLICATION DETAILS:

Mixing Ratio	Base : Curing agent 2.5 : 1 by volume
Application method:	Hot dual airless spray
Thinner (max. vol.)	Not recommend
Pot life:	10 min. (60°C) 50 ml
Cleaning of tools:	8003
Indicated film thickness, dry:	1500 microns
Indicated film thickness, wet:	1500 microns
Recoat interval, min:	4 hours (20°C)
Recoat interval, max:	24 hours (20°C)
Issued:	April 2018

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APPLICATION AND CURING CONDITIONS:

STEEL: abrasive blast to SA2½ and minimum roughness of 60 µm.

In confined spaces provide adequate ventilation during application and drying.

CONCRETE: The surface must be completely clean and dry at the time of application and its temperature must be min 5°C above the dew point to avoid condensation. Minimum temperature for curing is 5°C.

At the freezing point and below, beware of the risk of ice on the surface which will hinder the adhesion. High humidity and/or condensation during application and the following 16 hours (20°C) may adversely affect the film formation.

Maximum concrete moisture content should be 4%.

PRECEDING COAT:

For steel: None, or Polyurethane EPOXYPRIMER.

For concrete: Polyurethane EPOXY SEALER.

SUBSEQUENT COAT:

None or Polyurethane for decorative purposes or outdoor uses.

REMARKS:

Film thicknesses:

May be specified in another film thickness than indicated depending on purpose and area of use.

This will alter spreading rate and may influence drying time and recoating interval.

Normal range is 1500 microns/60 mils.

Thinning:

Not recommend.

Physical property:

Type of Physical property:	Result	Unit	Standard
Pressure strength	600	Kgf/cm2	ASTM D695M
Elongation at break	Min. 12	%	ISO 527
Hardness (Persoz)	Min. 200	Sec	ASTM D4366
Abrasion Resistance	Max. 50 mg	1000 cycle CS17	ASTM D4060
Adhesion pull off on steel (Min.)	> 1500	Psi	ASTM D4541
Shore hardness	60-70	Shore D	ASTM 2240
Flexibility	Pass		EN10290-Annex K
Cathodic disbondment (30 days/23°C)	≤8 length	mm	EN10290-Annex E
Specific coating resistivity (100 days/23°C)	≥108 (1000 mic dft)	Ωm2	EN10290-Annex F

A completely clean surface is mandatory to ensure intercoat adhesion, especially at long recoating intervals. Any dirt, oil, and grease have to be removed, e.g. with suitable detergent.

Salts to be removed by fresh water hosing. To check an adequate quality of the surface cleaning a test patch is recommended before actual recoating.

SAFETY: Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult Polyurethane material safety data sheets and follow all local and national safety regulations. Harmful or fatal if swallowed; immediately seek medical assistance swallowed. Avoid inhalations of possible solvent vapors or paint mist, as well as paint contact with skin and eyes. Apply only on well-ventilated areas and ensure that adequate forced ventilation exists when applying paint in confined spaces or when the air is stagnant. Always take precautions against the risks of fire and explosions.

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