

TECHNICAL DATA SHEET



ARMAFLAKE ULTRA-A

Description

Armaflake Ultra-A is a two component medium duty glass flake reinforced coating applied by roller, brush or airless spray.

It is formulated from Isophthalic polyester resin filled with graded glass flakes with exceptional thermal & mechanical properties, normally applied in a single coat to give a dry film thickness of 1000 microns.

Additional coats can be applied if required.

Uses

Armaflake Ultra-A is used to protect steel structures from aggressive marine environments and offers a good chemical resistance against erosion & abrasion, making it an ideal solution for offshore splash zones, atmospheric zone, under deck and helideck surfaces, internal and external of pipelines, steel structures and coastal power stations for sea water intake systems, which can withstand temperature from (-25°C up to 65°C) under immersion conditions.

Features

- Very Good resistance to acids and alkalis.
- Very Good impact resistance.
- Very good abrasion resistance.
- Very good erosion resistance.
- Low styrene emissions.
- Very good under cutting resistance.
- Very low permeability.
- Excellent for corrosion protection & resistance.
- Easy to repair.
- Application up to 1mm dft. in a single coat.

Surface preparation

Steel surfaces should be prepared to SSC-SP 10 standard SA2½ minimum by grit blasting, using angular grit, to a clean near white finish with a surface profile of 50µ to 100µ. Flash rusting should be avoided.

Refer to Armaflake Ultra-A method Statement.

Handling

Add 1-2% of the supplied Armacoat 302 catalyst or equivalent medium reactivity MEKP catalyst. Mix thoroughly for 3 minutes using an air-driven power whip. (**CARE:** incomplete mixing can lead to poor coating performance). Spray the material in one coat using a 68:1 airless spray machine, tip size 21-31 thou and 3/8 inch diameter spray hose.

Application

Mixed density (23°C)	1.2
Viscosity (23°C)	50000-90000 cps
Coverage (practical)	1.5-1.7 kg/m ²
Pot life (30°C) mins	35 minutes
Drying time (30°C) hrs	3 Hours
Overcoating time (hrs)	Min 6 hours Max 3 days
Maximum humidity	90% R h
Minimum dewpoint/substrate Differential (steel)	Dewpoint +3°C

Recommended film thickness

One coat at 750-1000 μ . More coats can be applied depending on prevalent service conditions. Carry out regular film thickness tests with a steel film thickness comb to ensure even film thickness.

Properties

TEST METHOD	STANDARD	UNITS	VALUE
Volume Solids	ASTM D792	%	99
Shore D hardness	ASTM D2240		75
Tensile strength	ASTM D638	MPa	44.0
% Elongation	ASTM D 638	%	2.0
Taber Abrasion	ASTM D 4060	Mg	25
Water vapour permeability test	ASTM D 1653	MPa	0.12
Pull off Adhesion on rusted sample	ASTM D 4541	MPa	8.5
Pull off Adhesion on Polyester coated sample	ASTM D 4541	MPa	10.0
Salt Spray test 2000 hrs	ASTM B117	hrs	Pass
Humidity test 2000 hrs	ASTM D 2247	hrs	Pass
Cathodic Disbondment (23°C)	ASTM G-8	mmr	1.0

Storage

Store in a cool place, well ventilated and away from direct sunlight and other sources of heat.

Packaging

Armacoat Standard Packing Size.

Shelf Life

6 Months

Health and Safety

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin. See material safety data sheet.

Contact Information



<http://armacoat.in>

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