

TECHNICAL DATA SHEET

ARMAFLAKE ULTRA-B

Description

Armaflake Ultra-B is a novolac vinyl ester based coating filled with graded glass flakelets which gives exceptional thermal & chemical resistance. It is applied directly onto steel substrates prepared to SSC-SP 10/SA 2½ standard. It has excellent corrosion and abrasion resistant properties to ensure long term protection in very aggressive environments at temperatures up to 170°C.

Uses

Used for long term protection of steel structures exposed to aggressive chemicals or high temperatures in applications such as tank & pipe linings, separators, water boxes, platforms and other process equipment.

Features

- Rapid thin film drying time
- Long term corrosion protection
- Excellent resistance to acids, alkalis & solvents
- Good thermal resistance up to 100°C.
- Application range 5°C to 40°C
- Repairable
- Easy to apply with standard airless spray equipment

Properties

Colour	Off white
Cathodic disbondment resistance (20°C, 28 days)	4mm
Impact resistance (ASTM D2794)	>6.5 J/mm
Adhesion to steel (SA2½) Elcometer	10 MPa
Shore D hardness (20°C)	>80
Water absorption (20°C) (ASTM D570 24hr)	0.1 %
Abrasion resistance (ASTM D4060)	0.04
Tensile strength (BS 6319)	> 13 N/mm ²
Hot salt fog (ASTM B117)	1500 hrs pass

Surface preparation

Steel surfaces should be prepared to SSC-SP 10/SA2½ minimum by grit blasting, using angular grit, to a clean near white finish with a surface profile of 50µ to 100µ. Use power tools such as abrasive wheels and needle guns for areas of difficult access.

Mixing & Application

To a 25kg bucket, add 1-2% of the supplied catalyst Armacat 301 or equivalent low 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 two coats at 500µ per coat to yield a wet film thickness of 1mm minimum. Use a 68:1 airless spray machine, tip size 21-31 thou and 3/8 inch diameter spray hose.

Density (mixed) (23°C)	1.25
Coverage (practical)	1.6kg/m ² at 1mm dft
Potlife (23°C)	30-60 mins
Hard dry (23°C)	2-3 hrs
Overcoating time (23°C)	Minimum 2 hrs, max 48 hrs
Maximum humidity	90%
Minimum dewpoint/substrate differential (steel)	Dewpoint +3°C

Recommended film thickness

Two coats at 500 μ per coat. More coats can be applied depending on service conditions. Carry out regular film thickness tests with a film thickness comb to ensure even film thickness.

Thinning/Cleaning

Clean tools with Diacetone alcohol or styrene. Do not thin.

Storage

Store in a dry, well ventilated area, away from direct sunlight, maximum temperature 35°C. Shelf life 6 months.

Supplied in pre-weighted 25 kg UN approved packs.

Health and safety

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

Packaging

Armacoat standard packing size.

Contact Information



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