



Sigmark WB Airfield Paint

Scope

A water based single component cold applied retro-reflective airfield marking paint for application in concrete and bituminous concrete surfaces at airfield skiplines, runways, taxiways, apron and on all internal or external marking requirements.

Uses

A fast drying, high solids acrylic emulsion medium applied with drop-on glass beads if required for better visibility, wear resistance, skid resistance and high dirt pick-up resistance and matches the specification requirements of AAI

Sigmark WB Airfield Paint shall conform to AAI specification 2/2006.

Product data

Type	Single Pack
Composition	Acrylic polymer emulsion
Application	Airless or conventional spray
Recommended DFT	180 - 240 microns per coat [unbeaded]
Recommended WFT	300 - 400 microns per coat
Volume Solid %	60 ± 2
Recommended drop-on glass beads	250gms ± 10%/ m ²
Theoretical Spreading Rate	2.5 to 3.0 m ² [depends on surface porosity]
Drying Time	Surface dry: within 30mts at 27±3 ⁰ C
Overcoating Interval	after dry to no pick-up time [30-45 minutes]
Colour	White, black and yellow
Thinner/Cleaner	Potable water (for cleaning of tools and equipments)
Finish	Smooth and matt
Packing	20Kgs
Storage Life	Upto twelve months as long as the sealed containers are kept in a cool dry place (10 ⁰ to 35 ⁰ C) and in original unopened containers.

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Substrate preparation

Substrate must be fully cured, dry, sound and clean. It shall be free from other contaminants, such as curing compounds, sealers, oil, grease, dust, salts etc. Wire brush, hand broom and compressed air blow or vaccum clean to ensure free of contaminants, dust, laitance, loosely adhering concrete. Best results are obtained in highly contaminated areas by mechanical, chemical and or thermal methods. Grooving of concrete surfaces should be completed. All voids, dents are to be repaired. High pressure water jetting is recommended at 2000- 3000psi for removal of any residue of curing materials on concrete surfaces. Allignments and border of lines shall be marked with oil free marker, chalk or emulsion paint.

Application guidelines

Substrate temperature should be between 10⁰ - 40⁰C and above 3⁰C more than the dew point temperature. Relative humidity during application should not be more than 80%. Substrate moisture content should be lower than 5%.
Airless spray with working pressures of 3300psi with tip size 0.025 to 0.036mm is recommended. For conventional spray, use any standard pressure pot equipment and at an atomising pressure of 50- 70psi.
Adjust application pressures to get desired film thickness and line definition. If bead application is required, apply drop-on beads @ of 250gms per m².

Precautions

The typical wind speeds should be 2-4mph. Paints will require longer drying time when the reative humidity exceeds 80%. Flush the equipment before and after use with copious amounts of water and ensure no dried residue is in the hose or the filtering mesh. Inhalation of coating mist and contact with skin or eyes should be avoided. Safety precautions as with any acrylic compounds should be adhered. Refer MSDS and health and safety guidelines. Do not use glass beads for black coloured Sigmark WB Airfield Paint. Do not apply when there is forecast of fog, mist or rain expected within one hour of application.

Painting Systems

Airfield Line Marking

Product	Coat	Thickness
Sigmark WB Airfield Paint	one	300- 400 microns WFT
Drop-on glass beads	one	250gms /m ² or as guided by specification

Airfield Arrow Marking, Letters, and Figures

Sigmark WB Airfield Paint	one	300- 400 microns WFT
Drop-on glass beads	one	additional 300gms /m ² or as guided by specification

DISCLAIMER

The information contained within this Data Sheet is based on information believed to be reliable at the time of its preparation. The Company will not be liable for loss or damage howsoever caused including liability for negligence, which may be suffered by the user of the data contained herein. It is the users' responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of results is implied since conditions of use are beyond our control.

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