



BERGER **Protecton** PROTECTIVE COATINGS

Bison High Build MIO Coating

USES

Ideal coating for structural steel, external tankages, equipment, ground pipelines, etc. in industrial and saline environment.

SCOPE

A high build conventional coating reinforced with lamellar Micaceous Iron Oxide to provide toughness, durability and excellent moisture resistance. Can be overcoated with synthetic and chlorinated rubber top coat.

PRODUCT DATA

Type : Single Pack

Composition : Alkyd medium with
Micaceous Iron Oxide

Application : Brush or Airless Spray

Recommended DFT : 50–65 microns per coat

Corresponding WFT : 111–144 microns per coat

Theoretical Spreading Rate : 7–9 Sq. Mtr./Ltr.

Drying Time :

TOUCH : 4–6 hours
HANDLE : 18–24 hours
HARD : 48 hours

Overcoating Interval :

MIN : 24–48 hours
Depending on site conditions

Flash Point : Above 30° C

Colour : Brownish Grey

Packing : 20 Ltrs.

Thinner/Cleaner : Thinner 800

Finish : Matt

Storage Life : Upto six months as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

RESISTANCE GUIDE

Chemical Resistance :

EXPOSURES	SPLASH & SPILLAGE	MILD FUMES / OUTDOOR RESISTANCE
Acids	N/R	Poor
Alkalis	N/R	Poor
Solvents	Fair	Fair
Salt	Good	Good
Water	Good	Very Good

Temperature Resistance :

Continuous : 93° C
Intermittent : 120° C

Weatherability : Very Good

Flexibility : Very Good

Abrasion Resistance : Moderate

SURFACE PREPARATION

Remove grease, oil and other contaminants preferably by using Bison Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 35–40 microns.

If blasting is not practical, make full use of mechanical tools along with manual chipping and wire brushing to remove loose rust and scale to St. 2 Swedish Standard SIS 05 5900. Excessive burnishing of steel is to be avoided.

Thoroughly dust down all surfaces. The surface should be clean and dry before application of a suitable primer.

APPLICATION

Mix the contents thoroughly before and during use.

Brush : Apply preferably without thinning. If required, use upto 5% Thinner 800.

Airless Spray : Add upto 5% Thinner 800. Use any standard equipment having pump ratio of 30 : 1. Tip size 0.43–0.48 mm. Tip pressure 125–160 Kg/cm².

TYPICAL PAINTING SPECIFICATIONS

Surface	1st Coat	2nd Coat	3rd Coat	4th Coat
Steel	BP ROZC or Bison HB Z/P or Luxol Z/C Primer	Bison HB MIO	Torpedo Syn. Enl. or Luxol HG Enl. or Linosol C/R Paint	Torpedo Syn. Enl. or Luxol HG Enl. or Linosol C/R Paint
-do-	-do-	-do-	BP Bituminous Al or Aluminium Pt IS 2339	BP Bituminous Al or Aluminium Pt IS 2339
Galvanised Iron & Aluminium	Degrease and abrade the surface. Apply Bison Wash Primer followed by any of the above systems excluding the primer coats.			

Notes :

1. After application of the final coat the film should be allowed to cure for atleast five days as the film develops its optimum resistance to water and chemicals only after this period.
2. Do not apply when temperature falls below 10° C or rises above 50° C and when relative humidity rises above 90%. Do not apply during rain, fog or mist.
3. Brushes and spray equipment should be cleaned with Thinner 800 otherwise equipment is likely to be damaged.

Health & Safety : Please refer to the separate Safety Data Sheet available with detailed information.

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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