

GP GUARD PU MIO 133

POLYURETHANE BASED MIO INTERMEDIATE COAT

Description

Two component Polyurethane based Intermediate coat containing lamellar Micaceous Iron Oxide pigment for barrier protection.

Recommended Use

This intermediate high build coat is suitable for protection of steel structures in aggressive coastal and industrial atmospheres. Applications include ship loaders, hoppers, conveyors, storage tanks, pipelines, and general structures in fertilizer plants, refineries, petrochemical and pharmaceutical complexes, chemical plants, power plants, steel and cement plants, smelters, engineering industries, etc. This being an intermediate coat, it has to be applied on a recommended primer coat based on prevailing service conditions.

Physical Data

COLOUR	: Dark Brown
FINISH	: Matt
SOLIDS BY VOLUME	: 50 ± 3%
THEORETICAL SPREADING RATE	: 8.33 sq.mt. /ltr. at a recommended DFT of 60 μ
FLASH POINT	: Base : Above 23°C Hardener : Above 23°C
DRYING CHARACTERISTICS (At 65% Relative Humidity & at 30°C)	: SURFACE DRY : 60-90 minutes HARD DRY : Overnight FULL CURE : 7 days
SHELF LIFE	: BASE : 6 months HARDENER : 6 months

Surface Preparation

This being intermediate, it is applied either over primer. The surface should be free from moisture, oil and dust before application. In case of aged epoxy coating/exceeded over coating, the surface should be sufficiently roughened prior to painting.

Application Data

MIXING RATIO	: Base : Hardener (As per our recommendations)
APPLICATION	: By Brush /By Conventional Spray /By Airless Spray
THINNER	: Type 001
POT LIFE	: 4 hours min at 30° C
RECOMMENDED DFT	: 60 - 80 μ .
OVERCOATING INTERVAL	: MIN : 16 hours MAX : Indefinite
COMPATIBILITY	: Can be top coated by PU, epoxy, Chlorinated rubber and synthetic enamel paints. Compatible with Epoxy and zinc rich primers.

Application Method

Mix the base and hardener in the recommended ratio by volume. Stir the mix gently to attain homogeneity. Add Thinner Type 001 into the mix and stir gently for few minutes. Allow the mixture to stand still (maturation) for about 10-15 minutes to initiate the reaction. All equipments used for above should be properly clean.

Application: By Brush /By Conventional Spray /By Airless Spray



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Generally no thinner is required for Brush application, however under adverse environmental conditions about 5% of thinner, by volume, can be added. Use quality brushes for paint application. Brushes made up of hog bristles are highly recommended. Size of the brush should be in proportion to the work in hand. Large size brushes (100-125 mm) for large areas and small brushes (25-50 mm) for narrow areas should be used.

For Conventional spray application:

Thinner : Type 002
 Addition : 5-15%
 Nozzle Orifice : 1.8-3mm
 Nozzle Pressure : 45-75 p.s.i

For Air spray application:

Thinner : Type 002
 Addition : Max 5%, if required.
 Nozzle Orifice: 0.42 - 0.53 mm
 Nozzle Pressure : 2100-2400 p.s.i

Additional Information

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following section of Grand Polycoats' latest Data manual :

- Guide to Product Data Sheet
- Surface Preparation Details
- Paint Application Details
- MSDS

Notes

1. Do not apply paint when temperature falls below 10°C or rises above 50°C and when Relative Humidity is above 85%. Do not apply during rain, fog or mist. Surface temperature must always be minimum of 3°C above Dew point.
2. Brushes and spray equipment should be cleaned with GP's recommended thinner otherwise equipment is liable to be damaged.
3. Volume solids will vary depending on requirements. Products with different volume solids, also available on requests.
4. DFT variation can be obtained by change in application method / thinning ratio. Contact Grand Polycoats representative for further assistance.
5. Shelf life indicated is minimum for this Product in sealed conditions and it is subject to re-inspection thereafter. Individual component is required to be stored in cool, dry and covered condition, away from heat and ignition.

Health & Safety

This is a solvent based paint and care should be taken to avoid inhalation of spray mist or vapours as well as contact between the wet paint and exposed skin or eyes.

Limitation of Liability

To the best of our knowledge, the technical data in our literature are true and accurate at the date of issuance but are subject to change without prior notice. We guarantee our product to conform to the specifications contained herein. We make no other warranty or guarantee of any kind, express or implied, including merchantability and fitness for particular purpose. Liability, if any, is limited to replacement of the product or refund of the purchased price. Labour or cost of labour and other consequential damages are hereby excluded.



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