

MAXOPOXY VINYL ESTER GLASS FLAKE 100

Product Characteristics

Description

MAXOPOXY VINYL ESTER GLASS FLAKE 100 is a two-component cold cured, vinyl ester-based coating, reinforced with fine glass flake. It creates impermeable barrier that significantly enhances the durability and longevity of the coated surface. It can be applied over steel surface without primer, in case of concrete surface only primer is required.

Recommended Use

MAXOPOXY VINYL ESTER GLASS FLAKE 100 is suitable for normal as well as immersed condition in which extreme resistance to chemical is required. It provides superior protection to marine environment as well as highly corrosive environments in which high abrasion resistance is required. It can be used in chemical processing and storage tanks, reactor vessels, internal and external pipelines, offshore platforms, ship hulls, docks, piers, water as well as waste water treatment plants, cooling towers, flue gas desulfurization units, silos, chemical spillage.

It is suitable for all kinds of chemicals (Within PH and Temperature range), range of solvents, oils and petroleum products.

Service Temperature

Maximum, dry exposure: 160°C

Immersed Condition: 90°C

Physical Constants

Shade

Grey/Off-white/Customized

Finish

Matt

Volume Solids (%)

100

Theoretical Spreading Rate

2 Sq.mt/litre @ 500 microns

Flash Point

Above 32°C

Surface Dry

Approx 50-55 mins @ 30°C

Product Data Sheet

MAXOPOXY VINYL ESTER

GLASS FLAKE 100



Hard Dry

Approx 3-4 hours @ 30°C

VOC Content

310 g/l

Shelf Life

6 months for Base and Hardener from the date of production when stored in an appropriate storage condition at 15 – 20°C. The drums should be seal packed in its original condition.

Application Details

Mixing Ratio

Base : Hardener/Curing Agent
(49:1 By Volume)

Recommended Thinner

Thinner not recommended

Application Method

Equipment	Heavy Duty Airless Spray
Pump Ratio	Above 65:1

Pot Life

20 - 25 Min @ 30°C, at higher temperature pot life reduced significantly

Nozzle Orifice

0.023” – 0.039”

Nozzle Pressure

>275 Bar or 4000 Psi

Cleaning of tools

Use of Maxoclean thinner is recommended for cleaning of tools and equipment's

Film Thickness

Normal DFT range of this product is from 500-3500 microns/ 20-140 mils. Apart from edges it is advisable to avoid excessive film thickness.

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Application conditions

- Temperature of the product must be above 4-5°C during application
- Surface temperature must be above 5°C during application and curing
- Relative humidity should be below 85% while application

Mixing Instruction

- As it is a two-component product, it is mandatory to stir the Part A or base with the help of a high-speed mechanical stirrer till there is no settlement or pigments settled at the bottom
- Once the base portion is mixed properly then only hardener needs to be added in the recommended ratio as mentioned in the mixing ratio

Mixing Table

Mixing Table is for reference

Volume Required	Base/Part A	Hardener/Part B
50 Litre	49 Litre	1 Litre
100 Litre	98 Litre	2 Litre

Surface Preparation

New Steel

- Abrasive Blasting to min Sa 2.5 (ISO 8501-1) / SP 10 (SSPC)
- All the dust, blast media and loose material should be removed

Maintenance and Repair

- On spot abrasive blasting to min PSa2 (ISO 8501-2) / SP 6 (SSPC)
- Oil, grease and other contaminants should be removed by suitable detergent
- Intact coating needs to be removed by water jetting to min WA 2 (ISO 8501-4)
- Acceptable flash degree of rust of maximum FR M (ISO 8501-4)
- All the dust, blast media and loose material should be removed

Drying and Over Coating

Coat Requirement

Preceding Coat

None or According to the specification. For concrete surface Maxoprime Vinyl Ester 100

Subsequent Coat

Recommended product is Maxopoxy Vinyl Ester Glass Flake 100

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Drying Time

Surface Temperature	15°C	30°C	45°C
Surface Dry	2.5 Hours	1 Hour	50 Minutes
Hard Dry	10 Hours	4 Hours	2.5 Hours
Fully Cured	5 Days	2 Days	1.5 Days

Calculations shown above are mentioned considering 500-micron DFT. To achieve the desired drying time , it is important to maintain proper ventilation during the whole application process.

Over Coating

Product	15°C		30°C		45°C	
	Min (Hours)	Max	Min (Hours)	Max	Min (Hours)	Max
Maxopoxy Vinyl Ester Glass Flake 100	6 Hours	Extended	2.5 Hours	Extended	1.5 Hours	Extended

Overcoating time is determined considering the generic paint system. If other products are required, please consult local representative.

Over Coating Surface Preparation

- If the maximum overcoating time is exceeded, it is mandatory to roughen the surface in order to create proper profile for subsequent coat
- To achieve necessary adhesion the surface should be clean and dry
- All the loose dust should be removed before application

Storage

Proper storage of the product is crucial to maintain their quality and performance over time. Below mentioned are some general guidelines for storing the material

- Store material in a controlled temperature environment, it should not be more than 25°C, or else it will affect the shelf life of the product
- Ensure good ventilation in the storage to prevent the buildup of fumes or volatile component
- It is mandatory to store material away from direct sunlight and rain
- It is advisable to keep the material in sealed tight drums as air will enter in loose drums and will result in formation of skin or thickening of material
- Store the material away from potential ignition sources and follow proper fire safety regulations

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Safety

This product is to be used for industrial use only and to be used or applied by professional applicators only

- Ensure proper ventilation in the area where you are applying the paint. This will help dissipate fumes and prevent inhalation of harmful vapours
- Wear appropriate personal protective equipment (PPE) such as gloves, safety goggles, and a respirator mask to protect your skin, eyes, and respiratory system from potential exposure to paint fumes and chemicals
- In case of accidental contact with the paint, rinse affected areas immediately with water and seek medical attention if necessary
- Do not eat, drink, or smoke while working with paint, as it can be hazardous if ingested and smoking can immediately cause hazardous fire, as it is solvent based paint
- Store paint drums out of reach of children and pets to prevent accidental exposure
- Dispose of any leftover paint or empty drums properly according to local regulations. Do not pour paint down the drain or in regular household trash.

If you have any specific questions or concerns, kindly refer to product's safety data sheet or contact the local representative for further guidance.

Note: Maxopoxy Vinyl Ester Glass Flake 100 is for professional or industrial use only

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Disclaimer

The information provided in this (PDS) product data sheet is subjected to get updated from time to time as per our experience and our policy of continuous product development and performance enhancement. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the product (and not an earlier version). We ensure that all the information provided in the datasheet or safety datasheet or any other additional documents if provided, are correct, however we have no control over the quality or condition of the substrate or many other relevant factors which affect the use and application of the product. Maxolay shall not be liable for defects or for any loss or damage arising out of the use of our product if the application of the product has not been carried out in as per the recommendations and requirements set out in product datasheet and in additional documents like safety data sheet, application instruction or any other written document issued by the authorised department or person for the company to do so like R&D representative or Director of the company.
