

Zinkomastik MIO

Technical Information Page



Product presentation

A two-component, amine-coated epoxy paint with anti-corrosion properties. Pigment-containing Micaceous Iron Oxide (MIO) paint has a fast drying feature and a high content of solid matter. It is particularly used on surfaces where a short waiting time between layers is required. It can also be used as a primer, an intermediate layer, a final layer or a single layer. It can be used at sub-zero temperatures.

Surfaces to be used

It can be used on steel structures and metal surfaces where corrosion resistance in accordance with C51 and C5M (ISO 12944-2) standard is required. It is recommended for use in marine environments, processing plants, electric power plants, bridges, buildings and mining equipment.

Film thickness and theoretical diffusion area

	Minimum	Maximum	Recommended
Film thickness, dry (μm)	75	250	100
Film thickness, wet (μm)	107	357	143
Theoretical diffusion area (m^2/l)	9.3	2.8	7.0

Physical properties

Color		Gray (can be painted with resin colors)
Solid content	ASTM D2697-03	71% \pm 2 (by volume)
Density (gr/sm^3)	ASTM D1475-13	1.54 \pm 0.02
Viscosity (25°C) KU	ASTM D562-10	105 \pm 5
Ignition degree	ISO 3679	32°C \pm 2
Brightness (GU 60°C)	ASTM D523-14	Semimate (10-70)
Mixing life (23°C)		2-3 hours
Mixing ratio (by mass)		6.8 pieces A Komp., 1 piece B Komp.
Thinner		Must be thinned with 5-10% epoxy thinner.
Heat resistance		Up to 120°C (1 hour at 140°C max)

All results are mixed (A+B) and may have slight color differences.

Surface preparation

All surfaces must be clean, dry and free of dirt. The surface should be evaluated according to the ISO 8501 standard and prepared accordingly.

- **Steel surface** - Blast cleaning at Sa 2½ (ISO 8501-1) is the most suitable cleaning. However, depending on the environmental conditions, mechanical surface cleaning at the minimum level of St 2 is also accepted.
- **Galvanized surface** - Blast cleaning at Sa 1 level (ISO 8501-1) is the most suitable cleaning.
- **Aluminum surface** - Blast cleaning at Sa 2½ (ISO 8501-1) is the most suitable cleaning.
- **Shoppripped steel** - The surface must be dry and clean. When necessary, the surface should be cleaned at Sa 2 level.
- **Painted surface** - The surface must be dry and clean. The old paint must comply with the ISO 12944 standard.

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Ways to use

Spraying	An airless or conventional pistol can be used.
Brush	It can be used. Attention should be paid to the application of the applied film thickness.

Application information with a hydraulic gun

Nib	0.33 - 0.58 mm (0.013-0.023")
Pressure	15 MPa/2100 psi

Drying time

Drying time mainly depends on the weather conditions, the thickness of the applied layer and the number of coats applied. The table below shows the approximate drying time of the paint depending on the air temperature.

- The room to be painted must be well ventilated (open air or free air circulation).
- Paint should be applied at the recommended thickness.
- The thickness must be applied taking into account the number of applied layers.

Air temperature	-5°C	0°C	10°C	23°C	40°C
Surface drying	16 hours	11 hours	2 hours	1 hour	30 min
Hard drying	38 hours	24 hours	6 hours	3 hours	2 hours
Complete (hard) drying		21 days	8 days	4 days	3 days
Applying a second coat of at least	24 hours	14 hours	4 hours	2 hours	1 hour

The above information was obtained in accordance with the rules. Drying time may increase or decrease depending on film thickness, ventilation, surface painting system, painting operations, mechanical stability and amount of thinner added.

Product compatibility

The paint can be used with various primers and finishes. Some of them are shown below. For more accurate systems, it is recommended to contact our company:

Primer: inorganic zinc silicate shop primer, zinc epoxide, epoxy, epoxy putty, zinc silicate, member shop primer

Next layer: acrylic, epoxy, polyurethane, polysiloxane

Typical paint system

Knarr Zinkomastik EZP	1 x 100 µm
Knarr Zinkomastik MIO	1 x 100 µm
Knarr Powercoat AS	1 x 60 µm
Other systems may be determined by the scope.	

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Storage conditions

Paint should be stored in a dry, cool, well-ventilated, covered warehouse that is hot and non-sparking, subject to local conditions. It should be mixed well before use. Containers must be tightly closed. Shelf life (at 23°C) - 24 months.

Packing picture

It is produced as 17 KG Component A and 2.5 KG Component B.

Implementation operator

This product is intended for professional use. The applicator or operator must be experienced and knowledgeable about the product. The named person must mix and apply the paint according to the specification. Workers participating in the application must be provided with protective equipment.

Product color

There may be slight variations in product color from batch to batch. These types of products may have discoloration and chalking depending on atmospheric conditions and sunlight.

Attention

The above information is based on results obtained from laboratory testing and field testing. In applications not under the control of the company, the responsibility for the quality of the paint lies solely with the company. It is not responsible for problems that may arise due to implementation and application errors.

Safety and health regulations

Follow the instructions on the container. Store in warehouses where there is no possibility of exposure to high temperatures and sparks. Use in well ventilated areas. In case of skin contact during use, wash with a suitable solvent and then with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice if necessary.

Note: "CMT Group" LLC reserves the right to change the information on the technical data page without prior notice.

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