



GEOFIP-FM4 ACID RESISTANT PAINT FOR METAL

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GEOFIP-FM4 paint based on geopolymer mineral adhesive creates decorative and protective thin coat on the metal product surface operated in aggressive (acidic) environment.

CHEMICAL RESISTANT
Geopolymer based www.geofip.com.ua

INTERESTING FACT
Bernina Express train attracts the travellers due to the spiral viaduct located near Brusio (Switzerland). The high-speed train loops the loop owing to specific tracks construction: railroad lays over the circular arch bridge, then under it through the highest arch. Such signature structure was built in 1908 aiming at lowering the rails' height for 17 m above sea level.
This part of the Rhaetian Railway was listed as the UNESCO World Heritage Site: that is why the tourists travelling by Bernina Express should not be worried about the condition of the loop viaduct and their own safety.

GEOFIP-FM 4 **PAINT FOR METAL**
ACID RESISTANT

Anti-fungal Frost-resistant Moistureproof Fire-resistant Hypoallergenic Ultra durable

GEOFIP-FM4 PAINT CHARACTERISTICS:

- paint coating protects metal from acid corrosion and weather factors;
- wear-resistant, doesn't age during exposure to ultraviolet radiation (UV);
- quick-drying (up to 25 min);
- highly adhesive to metal substrates;
- contains no biocide and organic solvent (water-soluble), biocide-free;
- emits no toxic substances; has no persistent chemical odour and does not cause allergic reactions;
- explosionproof, non-flammable, incombustible.

GEOFIP-FM4 paint is produced in accordance with TU U 23.6-41182689-001:2017 (Technical Specifications of Ukraine). The paint meets the existing requirements of Ukrainian Sanitary Regulations as evidenced by the sanitary epidemiological examination conclusion; therefore it is permitted for industrial and civil engineering.

SUBSTRATE PREPARATION

Preparation of steel substrates before application of paints is carried out in accordance with ISO 8501, ISO 8502, ISO 8503, ISO 8504, GOST 9.402-2004; the procedure for the preparation should be as follows:

- Assessment of the metal surface condition and quality;
- Test for the assessment of surface cleanliness; cleaning the surface dirt;
- Removal of dust, previous coatings, grease/bitumen spots and other contaminants, fragile or exfoliated elements of the substrate, preventing adhesion between paint coat and surface (sand blasting cleaning is recommended);
- Application of the other required methods corresponding to the above-mentioned standards.

In case that the metal substrate is rusted, it is required to remove grease from the surface with organic solvents and to apply GEOFIP-ZM rust converter. As soon as the dark-blue protective film would be created on the metal surface, GEOFIP-AM adhesion promoter should be applied to this film. Then, the surface should be levelled with GEOFIP-SM putty. When the putty coat has dried, the surface should be sanded with emery paper. After all loose matter removing, it is necessary to apply GEOFIP-GM primer.



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PAINT PREPARATION

Mix thoroughly using mechanical tool prior to applying to the prepared substrate.

WORK PERFORMANCE:

1. Two coats of paint should be applied to prepared substrate with roll, brush or using pulverizer after **GEOFIP-GM** primer dries thoroughly. The second coat must be applied when the first coat has dried.
2. Painting should be performed at ambient temperature between +5 and +30 °C; relative humidity level of 75% should not be exceeded.
3. The paint coat reaches the third stage of drying within not more than 20 min at ambient temperature (20 ± 2) °C, and dries thoroughly within 24 hours. The coating is acquiring protective properties within 28 days under normal conditions.
4. It is needed to clean the used tools with warm water after works performing.

Caution! Avoid exposure of the coating to direct sunlight, wind and precipitation for a day after application.

GEOFIP-FM4 PAINT TECHNICAL SPECIFICATIONS

Composition	geopolymer adhesive, filling, anticorrosive pigments, aqueous polymer dispersions, corrective additives
Solvent	water (not more than 1%)
Package	bucket (1, 3, 10 or 20 l), BiB (5 kg), barrel (200 kg)
Shelf life	12 months
Exploitation term	5 years
Colour	tinted as agreed
Gloss level	matte coating
Density *	1.3-1.5 g/cm ³
Paint consumption (per two coats) *	≈ 0.3 kg/m ²
Drying period (reaching the 3 ^d stage) *	not less than 25 min
Adhesion *	not more than 1 rate
Hydrogen index (pH)	not more than 11.5
Shock resistance *	not less than 50 cm
Resistance to static water pressure *	24 hours
Application temperature	between +5 and +30 °C

* The above values are based on normal climatic conditions (temperature +20 °C, relative air humidity 60%). Other climate conditions can result in the times and values deviation from those indicated in the table.

Caution! Coating is acquiring above-mentioned resistance values within 28 days after applying under normal conditions.



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SAFETY REGULATIONS

The usual precautionary measures for handling chemicals should be followed.

Protect eyes and skin with special glasses, respirator mask, gloves and clothes during the work performance. In case of contact with eyes, immediately rinse with plenty of clean water and seek medical advice if necessary.

Caution! Keep out of the reach of children in tightly closed packaging.

TRANSPORT AND STORAGE

Paint should be transported and stored in hermetically sealed packing at ambient temperature between +5 and +30 °C. Shelf life is one year. Date of manufacturing is indicated on the packaging.

WASTE DISPOSAL

Leftover paint should be disposed as construction waste after the expiration date has passed; packaging should be treated as municipal solid waste.

MANUFACTURER'S WARRANTY:

1. The manufacturer ensures conformance of **GEOFIP-FM4** paint to stated specifications subject to compliance with the rules of transportation and storage as well as compliance with application technique. Paint should be applied in conjunction with **GEOFIP™** products system.
2. The manufacturer accepts no liability for inappropriate application of the paint.
3. It is necessary to consult the manufacturer in case of applying product under conditions not stated in this technical description.

PRODUCT MADE FOR PROFESSIONAL USE ONLY!

*For additional information regarding the application of **GEOFIP™** products, please, visit website www.geofip.com.ua. If any issues arise, please, contact our managers: +38 044 232 9958; sales@geofip.com.ua.*