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APPLICATION GUIDE for applying anti-corrosion paint BRONYA METAL ELASTIC

BRONYA METAL ELASTIC – single component rubber-based paint with the addition of corrosion inhibitors and coloring pigments. Designed to protect metal surfaces from corrosion, atmospheric, mechanical and chemical influences, as well as giving it an aesthetically pleasing look. The operating temperature of the material ranges from –55°C to 120°C.

BRONYA METAL ELASTIC fits well both on all types of metals and on other surfaces. Painting can be carried out on surfaces with a working temperature from -25 °C to +35 °C (with an analysis of surface humidity).

1. Surface preparation

The surface must be cleaned of dirt, “lamellar” corrosion, dust, old paint, etc. To clean the metal surface from rust, use metal brushes or abrasive wheels with the removal of a loose layer of rust. The finished surface must not contain crumbling elements, must be dry (and must not condense), must not contain oily and greasy elements, must not be excessively plastic and glossy. If there are oily and greasy spots on the surface, they must be removed with a solvent. Areas with a glossy surface must be treated to a matte state.

2. Preparation of paint BRONYA METAL ELASTIC

When working with rubber paint **BRONYA METAL ELASTIC**, special attention should be paid to:

1. Before opening the container, it is necessary to ensure the integrity of the seals.
2. When preparing the material, it must be thoroughly mixed for at least 2 minutes.
3. When applied by an airless spray device (GRACO Mark 5, Mark 7, Mark 10 with a nozzle size from 21 to 27, selected individually) the material must be diluted with xylene (no more than 5% of the mass of the composition).
4. When applied with a spray gun, the material must also be diluted with xylene (no more than 5% of the mass of the composition).

3. How to apply paint BRONYA METAL ELASTIC

1. You can apply **BRONYA METAL ELASTIC** paint using a brush, roller, airless spray device (GRACO Mark 5, Mark 7, Mark 10 with a nozzle size from 21 to 27, selected individually), spray gun.

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2. Average consumption is 0,2-0,25 kg per m^2 per layer. The drying time of one layer of paint is about 30 minutes at an ambient temperature of +200 °C and normal humidity. At low temperatures, high humidity, rain – the drying time increases from 3 to 12 hours.
3. The insulation work must be carried out under the following conditions:
a) Normal weather conditions: no rain, fog, strong wind;
b) Air humidity: no more than 80%;
c) Ambient temperature: -25 °C to +35 °C (with surface humidity analysis);
4. The complete formation of the polymer surface takes from 72 hours to 2 weeks under normal weather conditions, which leads to the formation of a seamless monolithic coating.
5. After finishing the work, the tool is washed with an organic solvent xylene.

4. Safety in working with BRONYA METAL ELASTIC

1. **ATTENTION!!! WORK IN WELL-VENTILATED SPACES (IN ROOMS, BASEMENTS, DEPRESSIONS USE FORCED VENTILATION!);**
2. **DO NOT ALLOW NEAR AN OPEN SOURCE OF FIRE!**
3. Use protective clothing, breathing, visual and skin protection equipment;
4. Avoid the paint in the eyes, on skin and respiratory organs.
5. In case of eye contact, it is necessary to urgently rinse eyes with a large amount of water and consult a doctor immediately.

5. Technical specifications:

- Dry residue — not less than 52%.
- Density — 1300-1400kg/m^3.
- Time of drying to “casting” at 20±3 °C, = 20-30 min.
- Viscosity = 16 Pa•s at 20 °C.
- Initial tensile strength at 20 °C = 36 kgs/cm^2.
- Tensile strength = 148 kgs/cm^2.
- Adhesion to concrete — 2,5 mPa.
- Adhesion to metal — 2,3 mPa.
- Adhesion to plastic — 1,3 mPa.
- Adhesion (DIN ISO 2409) — G0.
- Resistance of the film to static effects of water, at a temperature of 20±2 °C, h, at least 168 hours.
- Elasticity = 350%.
- Water swelling at a temperature of 20 °C and a time of 168 h = 0%.

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- Operating temperature ranges from -55 °C to +150 °C.
- Peak heating temperature without changing of coating quality is 320 °C.
- Storage temperature ranges from -35 °C to +35 °C.
- UV resistance = 100%.
- The product has anticorrosive properties.

6. Storage and transportation conditions:

The material must be stored in a closed container, in dry spaces, at a temperature from -35 °C to +35 °C.

The shelf life of the material is 12 months.

The service life of the coating is at least 10 years.