

BRONYA

SUPERFINE THERMAL INSULATING COATINGS

BRONYA ANTICOR APPLICATION INSTRUCTIONS

*******NO FREEZING IS ALLOWED!*******

BRONYA ANTICOR is tailor-made for improperly prepared metal base surfaces:

- base surfaces that underwent manual derusting;
- improperly degreased surface.

BRONYA ANTICOR can be easily applied to all types of surface: metals, wood, plastics, glass, concrete, brick, etc. Insulating work can be carried out on surfaces with temperatures from +7°C to +150°C.

1. Surface Preparation

Remove dirt, plate-like rust, dust, old paint, etc. from the surface to be insulated. Use wire brushes or sand disks to remove rust from metal surface, be sure to remove loose rust film. The prepared surface must be dry (and without condensate) and free from loose, oily or greasy matter, and should not be excessively plastic.

2. Preparation of Insulating Coating

BRONYA ANTICOR is ready to use; prior to application to the pre-prepared surface, stir up and add some distilled water as required. Amount of water also depends on the temperature of the base surface and further operation. When the material is laid on surface with temperature range +5°C...+80°C, the amount of water added to the material should not exceed 5% for brushing and 3% for mechanical application (by airless sprayer). When the material is laid on surface with temperature above +80°C, please consult the local representative office or the manufacturer. For extended storage periods in containers splitting into fractions is possible.

*******AVOID EXCESSIVE AGITATION!*******

If drill is used, the maximum permissible agitating rate is 150-200 rpm. Use vertical travel of the blade to immerse the stiffened part into liquid, switch on the drill and start to slowly rotate the blade to mix the lumps with the liquid.

Keep mixing until the product becomes cream-like. Approximate time of mixing for the drill - 3-8 minutes, for manual mixing - 7-10 minutes. If condensate or frost crust removal is required, the material shall be laid on with minimum amount of water added and with maximum interlayer interval.

3. Coating Application

Use of soft brush with long natural bristles is recommended. One can use soft brush to lay the coating on small surfaces or areas of irregular shape. Surface areas up to 100 m² can be coated with an airless sprayer having air pressure up to 60-80 bar (Important! See additional Technical Data Sheet "Mechanical Application of Coating"). Insulation coating can be laid on surface with temperature from +7°C to +150°C, avoid working in humid weather: the material dissolved with water will not dry. To achieve better bond with the surface under coating, it is recommended that primer coat be laid on the prepared surface; for primer, use liquid composition of material (liquid as milk), dissolve the material with water. Complete drying of one coating layer with 0.4-0.5 mm thickness takes 24 hours minimum.

The next layer can be applied only after complete drying of the previous layer, i.e. in 24 hours at ambient temperature. To form a coat approx. 0.4-0.5 mm thick (optical thickness) three passes of sprayer or brush are required. Laying of material with thicker coats is inadmissible, since this results in development of damp-proof film on its surface; the film will prevent complete evaporation of moisture on the material and this will lead to loss of heat-transfer properties and coating deformation.

When laid on surface with temperature above 80°C, the material starts boiling and sets very quickly; therefore, the material should be diluted with water. It is recommended that 40-50% water solution of the material be applied to the surface as primer coat. The hotter the surface to be coated, the more diluted the material should be. Apply the diluted material with quick and short strokes to obtain a very thin coat. The drying time of every such coat is 1 hour



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minimum.

Keep laying such coats until the material being applied stops boiling on the surface. After that, let dry for 20 to 24 hours. Subsequently, the material is laid on in a less diluted state. One can control the working consistence of material and consistence of the first layer applied to a surface with temperature below +90°C through adding of distilled water as dilution agent, 5-10% of the volume.

To determine coat thickness of 0.4 mm, one can use thickness gauge, material consumption rate 0.5 l per 1 m² or the value of material optical thickness (the underlay must not show through the material). The material consumption rate depends on the surface type and method of application. Thermotechnical calculation or recommendations of certified regional manufacturer's agencies shall be used to determine the total coat thickness and the number of coats.

4. BRONYA Handling Safety Measures

4.1 Personal Protection

The product is safe under normal conditions. No respirators are required for work in a well-ventilated premise or outdoors. Use standard respirators in a premise without ventilation. Protect eyes with chemical goggles. Ensure access to flow water for eyes washing. Use chemical protective gloves and protective clothes to protect skin. Wash protective clothes prior to re-use.

4.2 Emergency Conditions

In case of eyes contact, immediately wash the eyes with flow water for 15 minutes. If irritation persists, consult the doctor. In case of skin contact, wash the skin with soap and water. Wash contaminated clothes prior to re-use. In case of inhaling, go to open air. The product is nonflammable in liquid state. In case of inflammation of structures or buildings with coating applied, use water, foam, dry chemicals or carbon dioxide for fire fighting. Use any absorbent material like sand, soil, etc. to remove spills of the product. In case of noncompliance with application and storage instructions, the manufacturer shall not be liable for the quality of coating.