



Industry Line

Brunix

Technical sheet n° 024
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Water dilutable room temperature instant metal blackener

Category:

- Room temperature metal blackener

Applications:

- Aesthetic of Blackening various metals

Strengths:

- Cold process
- Concentrate
- Reusable Solution

Applications

Brunix is a water dilutable instant metal blackener working at room temperature. Brunix is recommended for blackening cold and hot rolled carbon steels, carbonitrided steels, low alloy steels and iron. The product has also proven effective on copper, brass and sterling silver. It will not blacken stainless steels, aluminum and silver.

The surface to be blackened must be carefully prepared. It must be free from oil, grease, rust and any other substance or compound that can interpose between the metal and the solution of Brunix, or a finish in spots and not adhering to the treated piece.

Also remember that the presence of oily substances or oxides of other metals in burnishing bath will cause the malfunction.

The product, once diluted, must be placed in a plastic container or of steel coated inside with plastic materials, because the direct contact with metals would make the inactive solution after a very short time.

The browning time to be found experimentally with targeted testing. On average, a bathroom properly prepared employs, depending on the type of material, from 30 to 90 seconds with a product concentration in water equal to 10%. Depending on needs, the concentration can be increased up to 25%, with proportional shortening treatment times.

Indicatively a liter of concentrate is able to burnish a surface area of about 15m².

Directions for use

Degrease the pieces employing the following systems:

- a) vapour solvent cleaning;
- b) watercleaning with machine washers with our product HB180, being careful to rinse well and for a long time
- c) In some cases (manual cleaning) you may use the product Cleansol bg or the product HB 2003, followed by thorough rinsing.



Use

- Spraying
- Dipping

Whatever the system used, it is very important that the piece there is no trace of solvent-washed or detergent used, since otherwise the blackener would be inactivated.

- Remove any trace of rust on the pieces mechanically (using abrasives or mole) or chemically, with the use of cleaning supplies, like Road Clean, taking care to rinse thoroughly.
- After drying the pieces, dip them into the treatment bath and leave them long enough (30-90 seconds).
- Remove the pieces and rinse to stop the chemical reaction
- Dry the pieces with rags or a jet of hot air.
- To make a better and consistent treatment, lay on a thin veil of protective oil, like our Protector Fluid 43, and wipe it with a rag.

NB: If the room temperature drops below 20 °C, install an electric heater to keep the solution within the operating parameters.

Typical Dilutions

From 1:1 (50%)
to 1:10 (10%)

FEEDING AND MAINTAINING THE SOLUTION:

The Brunix solution can be powered indefinitely with periodic additions of concentrated product. The degree of activity of the solution and the dose of concentrate to add can be determined by titration (ask for the procedure to our laboratory).

The frequency of additions depends on the amount of work done by the bath and by the type of alloy.

The degree of activity of the bathroom should be kept at 85% or more of the original.

Therefore, make small but frequent additions of product. Working with automatic systems (metering pump), we advise you to determine a series of solution while handling the first 15 or 20 barrels or frames, in order to determine when the solution was discharged 10% -15% and you need to strengthen it.

The life of the bath and its performance can be improved by circulating and pass the solution through a filter system with filter from 50 µ.

In case of formation of sediment at the bottom of the appliance, we recommend that you transfer the solution into another container and remove the solids, then roll up the solution in the tank for treatment and strengthen it.

Product for industrial and professional use. The manufacturer declines all responsibility for any damage caused by the improper use of the product.