

Antox® 73 E Plus

Pickling Spray for Stainless Steels

A Product of the Chemetall Group

Field of Application

Pickle weld seams and surfaces in one operation.

Working Tools

Antox 73 E Plus can be applied with either the Antox pump M 1 or the pickling hand spray.

The Antox pump M1 is a compressed air-operated double membrane pump made from PP and PVDF with elastic membranes made from PTFE (Teflon).

The Antox pickling hand spray is made from resistant plastic and irrespective of a compressed air connection.

Application and Procedure

Before commencing work, safety precautions must be observed and protective equipment made use of.

Antox 73 E Plus is to be stirred with a plastic or wood stirrer before use, or shaken briefly.

If desired, work the color indicator for Antox 73 E Plus in when stirring. The *Antox color indicator* allows sprayed surfaces to be made clearly visible and reduces the odor and nitrogen oxide emissions. The color indicator should be added shortly before use.

Apply *Antox 73 E Plus* unthinned onto the surfaces and weld seams to be pickled with Antox pump or pickling hand spray.

Antox 73 E Plus is viscous and adheres to even vertical and overhanging surfaces. The reaction time should be observed. The surface of the stainless steel should be free of oils and grease before pickling. In the event of heavy contamination, clean with Antox 75 E before pickling (see Notes on Antox 75 E).

Upon completion, the processed surface is to be rinsed under cold water, using a high pressure water jet appliance (at a pressure of at least 120 bar). The rinsing effect can be improved and enhanced by employing plastic or stainless steel wire brushes. Rinse until the water running off is neutral (check with indicator paper).

After rinsing, the surfaces must be deadened with the Antox 90 E (see Notes on Antox 90 E).

Reaction Time Periods

Rust and acid-resistant steels, stainless steels

15 -60 minutes



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The reaction time period is dependent on the quality of the working materials treated as well as on the temperature of the ambient air and materials. The optimal pickling temperature is around 18° – 22° C. Work routines should be avoided in direct sunlight (due to hazard of premature drying).

Yield

1 kg of Antox 73 E Plus is sufficient for approx. 4 - 6 m² of surface area.

General Remarks

Antox 73 E Plus contains no hydrochloric acid and no chlorides.

Notes on hazards and suggestions for safety precautions

Antox 73 E Plus contains hydrofluoric acid and nitric (azotic) acid.

Very toxic when breathed in and swallowed. Contact with the skin causes severe acid burns.

Process and store in a well-ventilated place (the cans should be tightly closed). Breathing apparatus should be used when ventilation facilities are insufficient. Appropriate protective goggles, gloves and clothing should be worn whilst working.

Contact with the eyes should be treated by thorough rinsing with water and thereafter a doctor should be consulted. Contaminated and soaked protective clothing should be immediately changed. A doctor should be consulted if nausea is experienced (the doctor should be shown the notes on safety precautions, the product notes or the product label).

Please also observe the detailed information given in the German DIN Standard "SIDA" safety data sheet.

These products should not be accessible to children. For commercial and industrial use only.

Disposal

Neither *Antox 73 E Plus* nor the rinsing water may be disposed of in the public sewers in an untreated state. The waste water is acidic and contains alloy residue solids from the treated metal. Appropriate treatment should be carried out in a suitable neutralisation plant or disposal undertaken via a licensed waste disposal enterprise. The local waste water regulations are to be observed.

This edition replaces all previous editions, which then lose their validity. The information and details are given to the best of our knowledge and belief, and conform, at the time of going to print, to the forementioned experience in laboratory situations and in practice. These are however only to be understood as non-binding guidelines, which will have to be adjusted individually to meet the requirements of every situation in practice. As the application and use of our products are outside our control and influence, we can only accept liability for the irreproachable, standard quality of the products at the moment in time of delivery. Any consequential loss or damage will only be addressed when the possibility of such has been previously agreed in writing before application and use, by making reference to the advertised and warranted characteristics and effects.



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