

## Passivator 601

### The need for an extra Passivation of Stainless Steel.

An air-passivation of Stainless steels take place naturally on a clean surface. However in the presence of surface contamination, like free iron from contact with carbon steel tooling, this may interfere with the formation of the passive film. These contaminants has to be removed by using Passivator 601 to allow the oxygen uniform access to the surface in order to create the protective passive film. Further the air-passivation may take too much time in some aggressive environments, like close to the sea side. The passive film build up may need assistance of the Passivator 601 to speed up the formation.

#### A traditional nitric acid based, well-proven Passivator

Avesta Passivator 601 contains nitric acid in accordance with ASTM A 967 for the Passivation of stainless steel by spraying, immersion or circulation.

As an alternative for spray passivation we also recommend our acid-free Avesta FinishOne Passivator 630, to improve safety and minimize the environmental impact.

#### Standard applications

- » The Passivator 601 restores stainless steel surfaces, after pickling or mechanical cleaning, that have been damaged during fabrication operations such as welding, forming, cutting and blasting. It removes free iron and speeds up the formation of the protective passive layer to prevent local corrosion.
- » For the Maintenance Cleaning of stainless steel objects in service which are suffering from surface rust / tea staining. The Avesta Cleaner 401 can be used together with Passivator 601, they will remove the surface rust and then promote the regeneration of the protective layer in the stainless steel by speeding up the thickness of the passive layer.

#### Features

- » Accelerates rebuilding of the protective layer of chromium oxide.
- » Removes surface contaminants and iron particles from stainless steel surfaces.



Photo: Maintenance Cleaning of tea-staining of hand railings on the sea side



Photo: The tricky thing with free (unalloyed) iron particles is that you don't see them on the surface of stainless steel, until they start rusting in humid air and get brownish



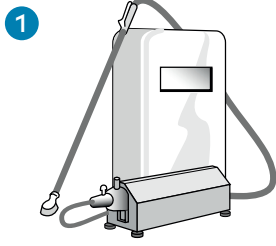
1100kg IBCs



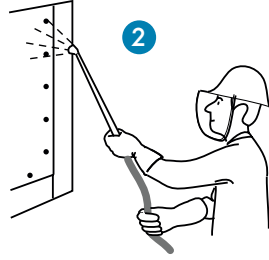
28kg drums

Photos: Available in several packages  
(Sizes may differ from markets)

## Instructions for use



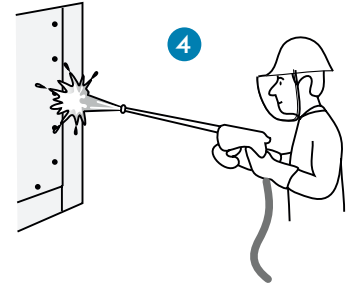
1. Apply the Passivator 601 by spraying with an acid resistant spray pump like Avesta SP 25 or by dipping, circulating or with a brush.



2. Apply the Passivator evenly over the entire surface.



3. Typical reaction time for all stainless steel grades is 20-30 min. at room temperature .



4. Rinse off the Passivator 601 residuals by using a high-pressure water jet. Use deionized water for the final rinsing of sensitive surfaces. The waste water should be neutralized before discharge.

## Packaging

Avesta Passivator 601 is supplied in 25 kg , and 1100 kg IBC polyethylene packages. Availability of different packages sizes may differ between markets.

## Storage

Avesta Passivator 601 should be stored indoors at room temperature. Containers must be kept properly closed, in an upright position and inaccessible to unauthorized persons.

## Worker safety

Protective clothing. In general, users should wear acid-resistant overalls, gloves and rubber boots. Face visor should be used and, if necessary, suitable respiratory protective devices.

Special conditions may apply from one country to another. Consult our website where updated Safety Data Sheets can be found.

## Waste treatment

The waste water produced when passivating with Passivator 601 contains acids and should be treated with Avesta Neutraliser 502 or with slaked lime to a pH-value of 7-10 before discharge

Empty containers (HDPE) must be cleaned and can then be recycled according to local regulations.

## Other information

For more information, please visit our website:

[www.voestalpine.com/welding](http://www.voestalpine.com/welding), where you can find Safety Data Sheets and other useful information.



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