



General informations

TORAN 3/A® is a new process made by organic compounds developed to prepare metal surfaces before painting: cleaning, degreasing and temporary protection.

Main feature and properties

TORAN 3/A® main advantages are:

- supplied as ready to use;
- one step process (without any rinsing);
- any creation of waste (total absence of effluents to treat);
- permit the application of liquid or powder coatings (preliminary test are recommended);
- one step process working at room temperature based on organic solvents;
- dip application;
- «multi-metal» process: compatible with steel, aluminum and its alloys, galvanized and electro-galvanized steel.

After the treatment, the pieces are coated by a very thin organic layer (about 1 micron) able to increase the paint adhesion and to provide a valid temporary protection against oxidation. This organic protective film incorporates the contaminants fats on the piece, without saturate the product of oil (maximum limit of oil concentration: 4 % of the volume of the bath).

TORAN 3/A® provides a standard seal to salt spray on iron with epoxy powder coatings, polyester powder coatings and mixed powder coatings (60 microns, well polymerized): minimum 400 hours.

The bath is followed every 3 months by free of charge analysis for the customers.

Environmental impact

With **TORAN 3/A®**, there aren't:

- water pollution;
- solid waste to dump;
- emissions to the atmosphere of halogenated solvents, teratogenic, cancer creating or mutagenic substances, CFC, HCFC, harmful substances for stratospheric ozone.

CHEMTEC S.r.l.

SEDE LEGALE: Via G. Boccaccio 29, 20123 Milano, Italia
UFFICI E LABORATORIO: Via G. Puccini 7, 20010 Ossona (MI) Italia
T: +39(0)292867461—F: +39(0)287366254—info@chemtec.it—www.chemtec.it—P.IVA 07131480969





Application data

- *Preparation*: the product is supplied as ready to use;
- *Treatment*: 1 - 3 minuts max.;
- *Draining*: 3 - 6 minuts;
- *Drying*: 5 - 15 minuts at room temperature;
- *Application way*: dipping
- *Running temperature*: room;
- *Coverage* 15 - 20 m²/lt;
- *Hanging*: hang the item to help the dripping off of the product, in order to avoid retentions of liquid that may cause aesthetic defects.



Maintenance

- **Weekly controls:**

Make the replenishment of liquid according to the instructions given in the last analysis report.

- **Monthly controls:**

Once a month, it is recommended to replace the filter bags.

- **Quarterly controls:**

Every 3 months the user will pick up and send us a sample of the bath which will be analysed free of charge. Following this analysis, Chemtec will send an analysis report including the indication of the recommended ratio of **TORAN 3/A®** and **SOLVANT A/402/B** (concentration corrector) to introduce in the tank to top up the liquid level. This instruction will remain valid for three months, until the next analysis control.

- **Annual controls:**

Once a year, it is recommended to empty completely the tank in order to clean it from the impurities settled at the bottom. After cleaning and decantation, the product will be reused.

- **General considerations:**

This informations correspond to our current knowledge, but they do not constitute a warranty or supply specifications and they may be subject to revision, at anytime without notice, as new knowledge/experience becomes available.

In consideration of the many applications possibilities of the product, our technical department is available to provide every clarification about the specific fields of application.

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Limits

- **TORAN 3/A**[®] is not a paint stripper or a rust converter;
- if the quantity of oily contaminants on the items is higher as average level than about 2 gr/m² the product could be saturated by the oil;
- compatibility problems with cataphoresis and anaphoresis treatments;
- the extruded aluminum and Zamak profiles must be subjected to a preliminary mechanical or chemical preparation;

TORAN 3/A[®] does not clean effectively contaminated surfaces with products containing paraffin, waxes, silicones, stearates or fats with high softening points, etc.

It's responsibility of the user to check systematically the performance of the painting.

For new applications, it is always necessary to carry out preliminary tests, in order to check the compatibility between the **TORAN 3/A**[®] and the powder or liquid coating applied.

TORAN 3/A[®] must not come into contact with water, because the system is not able to absorb it, except in small quantities. Therefore, it is recommended not to treat recent contaminated pieces with soluble cutting oils.

In case of doubts about the compatibility between some oils and **TORAN 3/A**[®], our laboratory can carry out specific tests.



Materials

All parts of the equipment in contact with the product must be made of steel, stainless steel, polyethylene or high-density polypropylene.

The equipment must be provided with suitable air extraction in order to avoid escape of vapours in the working area.

Provide the equipment with a suitable filter group for the filtration of not soluble impurities.



Storage

Keep the product at temperatures between 10 and 45° C in its original packing perfectly sealed far from heat sources, free flame and sparks. In case of outdoor storage, it is recommended to avoid direct exposure to the sunlight.



Packing

The product **TORAN 3/A**[®] is supplied in homologated polyethylene high density 30 liters drums, 200 liters drums and in homologated 1.000 liters tank.

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Safety

Before using, please read carefully MSDS.

Our technical department is at your disposal for any further information.

We are not responsible in case of failure to comply with our recommendations.

The information corresponds to our current knowledge on the subject. Since we cannot anticipate all variations in actual end-use conditions, we make no warranties and assume no liability in connection with any use of this information. These information may be subject to revision as new knowledge/experience becomes available.

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