

# VERZINKSHOP UNI METAL SEALER MANUAL

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## UNI METAL SEALER

Verzinkshop Uni Metal Sealer is a professional, water-dissipating metal sealer based on oil/solvent with rust-inhibiting additives. The sealer penetrates deep into pores/cavities and effectively expels moisture. After application, a **thin, oily protective film** remains that **can be lightly buffed to "dust-dry" as desired**, but **does not harden to a hard paint**. Suitable for ferrous and non-ferrous metals.

## SUPPLIES & MATERIAL CHOICE

- Sealer tank & equipment: mild steel is suitable for the Uni Sealer.
- Cover: always cover tank when not in use to limit evaporation.
- Ventilation & PPE: work with good ventilation and wear appropriate PPE.

## APPLICATION – METHODS

Uni Sealer can be applied by:

- Dipping (recommended after chemical blackening)
- Brush/sponge (swab-on)
- Low-pressure sprayer

## SUGGESTED USE

Uni Sealer is used undiluted and can be applied to wet or dry parts, both to bare metals and to surfaces with a chemical conversion coating (such as cold black oxide or patinas). Very suitable as a sealer for:

- Bare metals for storage
- Galvanizing shop Black Oxide / Black Oxide Ultra
- Galvanizing shop Black Stainless Steel Oxide
- Galvanizing shop Patina products

Typical applications: tools, dies, machinery, firearms, fasteners, automotive and marine parts, and general metal surfaces for protection during processing or storage.

## PROPERTIES

Technical characteristics of the sealer:

- Finish: oily, water-repellent protective film.
- Coverage: approx. 40–50 m<sup>2</sup> per litre (depending on porosity and application method)
- Water expulsion: very good; Designed to draw flush water and moisture out of pores/cavities
- Drying/handling (20–22 °C, good ventilation):
- Polishable/dust-dry appearance: ~10–20 min
- Manageable (light use/packing): ~30–60 min
- Film remains lubricating; No "fully cured" lacquer stage
- Flash point: flammable solvent product – treat as flammable liquid

## APPLICATION

### PREPARATION

Cleaning/degreasing: use an alkaline degreaser; Rinse and drain well.

Surface condition: dry or "wet from rinsing" is allowed. In wet parts, focus on water displacement.

### PROCESS STEPS

Dipping: Part 4–6× moving fully in and out of the bath to expel water from pores/cavities; Then leave on in the bath for 2–5 minutes.

Brush/sponge/sprayer: apply generously and keep "wet" until visible no more water returns to edges/holes; Repeat briefly if necessary.

Drain/shake off: drain excess sealer back into the tank. Do not use compressed air.

Drying: handle the properties (dust-dry 5–10 min; manageable 30–60 min; final result 12–24 hours).

## **BATH MAINTENANCE**

Water separation: Uni Sealer expels rinse water to the bottom of the tank. Drain this periodically.

Sight glass (recommended): install a sight glass for large tanks to check the water level and prevent work from entering water instead of sealer.

Baskets/drums: Do not dip baskets or rotating vessels used in previous process baths into the sealer (prevents contamination).

Cover: keep tank covered when not in use; Limits evaporation and pollution.

## **SEALER REMOVAL**

Uni Sealer can be removed with:

Solvents (e.g. hydrocarbon cleaners)

Chlorinated solvents (as in vapour degreasing, where permitted)

Strong alkaline cleaners After removal: rinse according to the cleaning agent and dry parts again.

## **WARNING!**

Uni Sealer is a flammable liquid. Keep away from open flames and other sources of heat. Avoid contact with eyes, skin and clothing. Wear eye protection (goggles, goggles, or face shield), protective rubber gloves, and aprons when preparing solutions and while working with the solutions. The sealer is toxic when used internally.

Do not work with the Galvanizing Shop products without first reading and understanding the SAFETY INFORMATION.

The safety data sheet can be found on the product page or can be requested from Verzinkshop.nl by e-mail: [info@verzinkshop.nl](mailto:info@verzinkshop.nl)

Do you have any questions? Contact us via:

Mail: [info@verzinkshop.nl](mailto:info@verzinkshop.nl)

Whatsapp or call: [+31 6 28090022](tel:+31628090022)

[WWW.VERZINKSHOP.NL](http://WWW.VERZINKSHOP.NL)

## **SAFETY**

ALWAYS wear a dust mask, respirator, gloves, and apron when necessary.

ALWAYS treat any chemical as if it could kill you.

ALWAYS label buckets and storage containers with a permanent marker so that you and others know what's inside.

NEVER pour water into acid; it can heat up and explode. ALWAYS pour acid into water.

NEVER leave electroplating pools or other systems that use power unattended. These products may cause a short circuit and cause a fire.

NEVER come into direct contact with chemicals. They can cause serious burns or other damage and are very dangerous substances if not treated with respect.

NEVER THINK you can get away without taking safety precautions! That is not possible!

NEVER leave the lids off the tanks when not in use. They WILL fall over!

Always work safely and ensure good protection and ventilation.

The safety data sheet can be found on the product page or can be requested from Verzinkshop.nl by e-mail: [info@verzinkshop.nl](mailto:info@verzinkshop.nl)

## **DISCLAIMER**

Did you find an error or something unclear in the manual? Please let us know via  
[info@verzinkshop.nl](mailto:info@verzinkshop.nl)

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