

CASWELL PENETRATING SEALER MANUAL

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CASWELL PENETRATING SEALER

Caswell Penetrating Sealer is a water-repellent oil-based and solvent-based sealer.

SUPPLIES & MATERIAL CHOICE

- Tank & equipment: mild steel.
- Cover: always cover tank when not in use to limit evaporation.
- Ventilation & PPE: work with good ventilation and wear appropriate PPE.

APPLICATION – METHODS

Penetrating Sealer can be applied by:

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

SUGGESTED USE

Penetrating 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:

- Caswell Black Oxide / Caswell Mega Black
- Caswell Stainless Steel Blackener

PROPERTIES

Technical characteristics of the sealer:

- Finish: very slightly oily, dries dust-dry
- Coverage: $\pm 50 \text{ m}^2$ per liter
- Film thickness (dipping): $\pm 0.003 \text{ mm}$
- Flash point: $52 \text{ }^\circ\text{C}$
- Drying / curing:
 - Manageable / light use: 30–60 min
 - Final Result (Color/Protection Stabilized): 12–24 hours

(Cool/cold, thick films, little ventilation, or highly porous substrates extend these times.)

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: Penetrating 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

Penetrating 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!

Penetrating 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 operate with the Caswell 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

Do you have any questions? Contact us via:

Mail: info@verzinkshop.nl

Whatsapp or call: +31 6 28090022

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

DISCLAIMER

Did you find an error or something unclear in the manual? Please let us know via info@verzinkshop.nl

We put together our manuals with care. However, no rights can be derived from the content. Processes and results depend on circumstances beyond our control. Therefore, always test for test/scrap material first and work according to the SDS and with appropriate PPE. To the fullest extent permitted by law, we are not liable for (i) indirect or consequential damages (including depreciation of workpieces), (ii) damages due to improper use or interpretation of the documentation, or (iii) typographical and typesetting errors. Our total liability is limited to replacement of the delivered product or refund of the purchase price. This does not apply to intent or deliberate recklessness on our part and does not affect your mandatory (consumer) rights.