

Summary

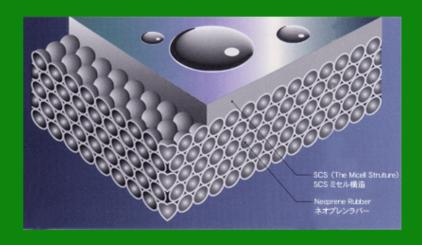
- Introduction
- Finding leak(s)
- Seal replacement (latex)
- Zipper care

Introduction

- Lex Schotema
- Diver since 1986
- Owner of:
 - Aqua Diving Veenendaal NL (1998)
 - Technical Dive Center
 - Regulator service
 - Drysuit repair

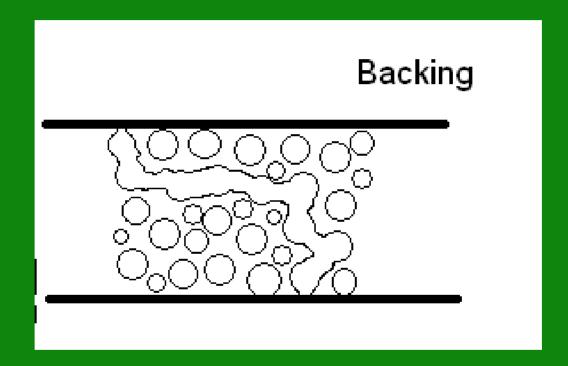
Basic information

Neoprene drysuits



- Trilaminate / Cordura drysuits
 - 3 layers: nylon/rubber/nylon
- Rubber drysuits
 - 2-3 layers: rubber/nylon

Neoprene suits



Test dry suit

RIGHT SIDE OUT

- best at finding leaks in
 - Neoprene suits
 - Trylaminate / Cordura / Rubber suits with 'hard'boots

INSIDE OUT

 best at finding leaks in the seams of any Trylaminate / Cordura / Rubber

Right side out

- Stop off the seals:
 - Wrist: PET bottle / something tapered
 - Neck: soft strips of material an old T-shirt cut into strips works well



Right side out

- close the waterproof zipper
- close the exhaust valve all the way (use dummy)
- attach the suit inflation hose to the inflator valve
- pressurize the suit until the exhaust valve begins to leak
- spray suit down with soapy water
- patches or application of Aquaseal® / Aquasure® on the inside of the suit

Inside out

 Close the exhaust valve and turn the suit inside out.

- Stop off the seals:
 - Wrist: PET bottle / something tapered

Inside out

- close the waterproof zipper
- drop an open-end hose inside the neck seal
- stop off the neck seal and hose:
 - soft strips of material an old T-shirt cut into strips works well



Inside out

- gently open tank valve to inflate the suit
- spray suit down with soapy water
- patches or application of Aquaseal® / Aquasure® on the inside of the suit









Patching Leaks

1. MATERIAL PATCH

2. SEALANT PATCH

Material patch

- Locate and mark where the leak
 - neoprene dry suit: glue the tear together
- Lay the suit inside out
- cut a patch of material
 - Tri laminate:
 - apply two coats of glue
 - Neoprene:
 - apply three / four coats of glue

Material patch

- Apply the patch to the suit
- Seal the edges
 - mixing 10ml of Aquaseal® or Aquasure® and 10ml of Cotol-240
 - apply two coats of the mixture to the edges

Neoprene glue



cut the wrist seal off and/or use hair dryer





remove the old seal

Remove old / remaining glue



Prepare two plugs to be used in sleeve ends



Use masking tape, tape 2cm up from the end



-Insert plug into arm seal

- Sand the exposed area of the seal (2cm)



 Pull the seal into position over the plug until it overlaps the sleeve, then fold it back



Clean the sanded area with solvent.



 Apply three even coats of glue to the sanded area of the seal and the sleeve





Fold the seal back over the sleeve

- Turn the sleeve inside out exposing the junction of the suit for sealing.
- Seal by mixing 10ml Aquaseal® / Aquasure® and 10ml of Cotol-240® or Aceton and apply two coats of the mixture around the INSIDE junction of the seal and suit. The coats should be 2cm wide, 1cm on the seal and 1cm on the sleeve. Allow to dry for approximately 20 to 30 minutes.

Sealant patch

- Locate and mark where the leak
- Turn suit inside out and seal by mixing:
 - 10ml of Aquaseal® or Aquasure® and 10ml of Cotol-240
 - apply two / three coats of the mixture

2 components Glue



Seal Cement



Cutol-240



Replace Latex neck Seal

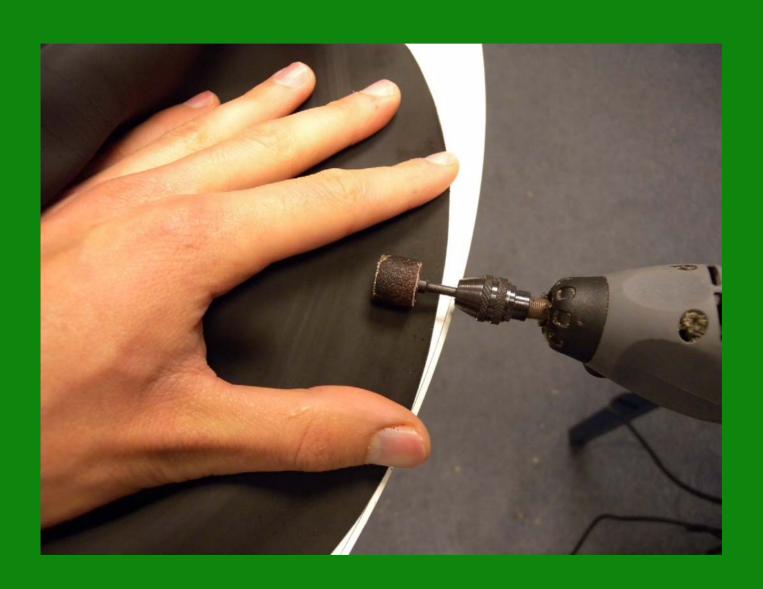
cut the wrist seal off and/or use hair dryer



Replace Latex neck Seal



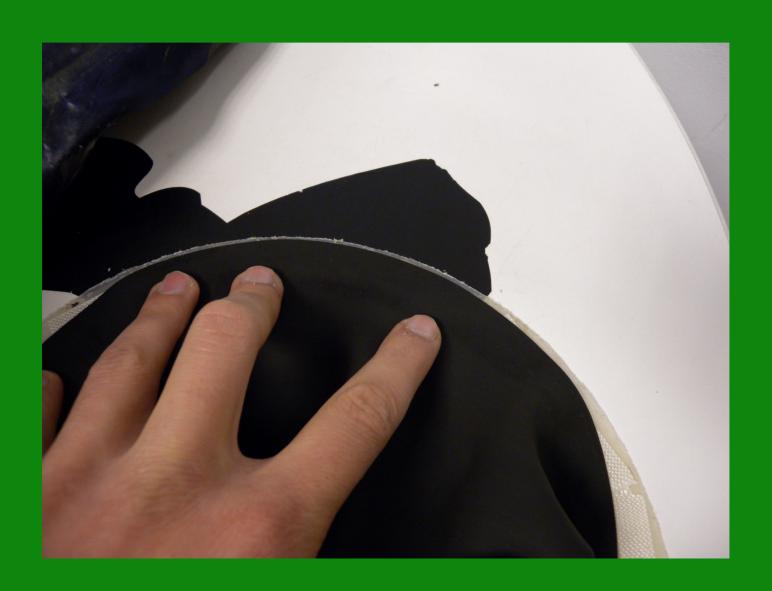






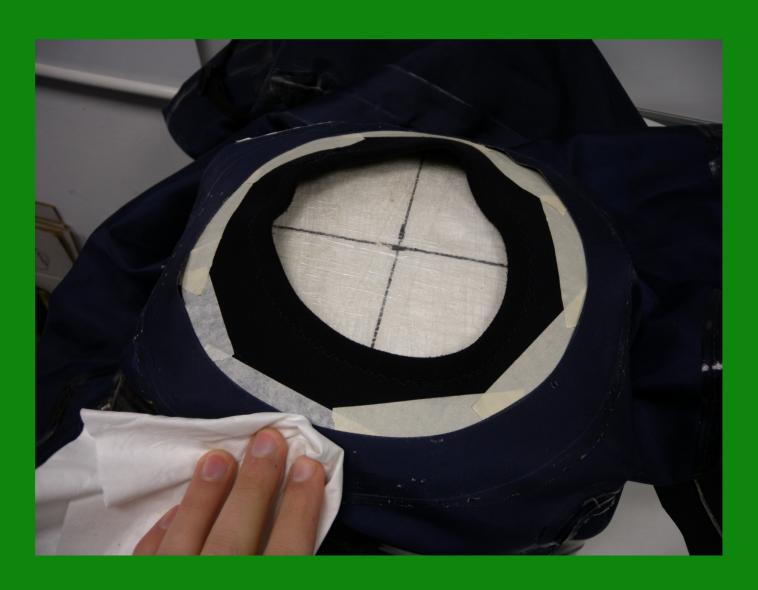
















- Apply three even coats of glue to the sanded area of the seal and the exposes area of the neck opening.
- Allow a ten-minute curing time between the first and second coats and five minutes between the third coat



Microwave foil, avoiding the seal directly sticks on the dry suit









- Seal by mixing 10ml Aquaseal® /
 Aquasure® and 10ml of Cotol-240® or
 Aceton and apply two coats of the mixture
 around the junction of the seal and suit.
- The coats should be 2cm wide, 1cm on the seal and 1cm on the sleeve. Allow to dry for approximately 20 to 30 minutes.



Zipper Care

- Zipper care is essential
 - replacement is expencive
 - time consuming
- Cleaning
 - Remove dirt / sand
- Lubricating
 - Outer elements: wax
 - Inner elements: no wax!

Zipper Care

- Don't use Paraffin wax or Beeswax
 - If applied to the inner elements: it will fill the gaps, preventing interlocking
- Store the suit with:
 - Lubricated zipper
 - Zipper OPEN!

(if stored in a bag: the zipper is wrapped around the outside of the bundle)

- Don't use Silicon spray
 - Affects Zipper replacement

Zipper Care

Zipper edges:
 Remove the bits of fluff
 (fibers at the edges of the zipper)
 use the outside of the heating element of a soldern iron with care!

 Always pull zipper straight (parallel) during closing / opening

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- Zipper care

Lex Schotema Aqua Diving Veenendaal – The Netherlands

info@duikplezier.nl

Order:

Glue

Seals

Manual

Any questions?

Feel free to ask ©