

Technical Information

PRODUCT

Quick Neck

FABRIC

- TPU-Desmopan® (Quick Neck Ring)
- TPU-Polyester (Lock Ring)

TECHNICAL DESCRIPTION

Sealing system which seals and locks neck seal mechanically, utilizing the seal as sealing.

INSTALLATION

Installation of PU-ring in suit by adhesing on to surfaces on PU-ring as shown in illustrations*. The generous bonding surface of the Quick Neck Ring offer a secure attachment as long as proper preparations and cleaning are made before the adhesive is applied. Other installation methods as for example welding, is possible.

SI TECH TESTING:

Strength test: load 15,5 kg pulled in seal (silicone seal) for 22 hours (exceeding EN standard test). Impact test: Performed carrying diving drysuits and drysuits for sailing. Quick Neck mounted. Jump heights: 1 m, 3 m, 5 m, 10 m. Diving tests: Performed in various conditions. Other info: Patent pending.

Long term storage in normal conditions (10-30°C).



*The area marked red is the actual bonding surface of the Quick Neck Ring

Information about adhesives

Polyurethane- or cyanoacrylate-based systems for bonding Desmopan® and Texin™ are supplied by the adhesive industry under a variety of trade names. Cyano-acrylate adhesives cure extremely quickly, but are brittle. The bonded joints breaks under pressure, so they are only suitable to a limited extent for elastic, flexible materials such as TPU. They should only be used for temporary bonds that are not subject to bending.

Polyurethane adhesives take longer to cure but, like Desmopan® and Texin™, are flexible and elastic. They are therefore ideal for long lasting bonded joints.

Only a few solvents (including NMP, DMF, MEK) dissolve Desmopan® and Texin[™] to such an extent that it is possible to produce a bonded joint. These solvents are harmful to health, and it is essential that the information given in the safety data sheets be observed.

Information about welding

Desmopan® and Texin[™] components can be joined together by welding. Suitable methods include:

- Hot air and nitrogen welding
- Hot plate welding
- Heated tool and heat impulse welding
- High- frequency welding
- Friction welding
- Vibration welding

In all cases, an efficient extractor must be provided for any carbonization gases.