

LIQOSEAL®

INDICATIONS

LIQOSEAL® is indicated for use as an adjunct to standard methods of **cranial** dural repair to provide a watertight closure of the dura mater and reduce cerebrospinal fluid (CSF) leakage

LIQOSEAL® has not been tested in: patients younger than 18 years; pregnant or breastfeeding women; patients with compromised immune system or autoimmune disease.

STORAGE Store in a dark, dry place between -30°C and -15°C.

Take the package with LIQOSEAL® out of the freezer at **least 10 minutes** and maximum of 8 hours, before use.
Either use or dispose the device.



Immediately remove the outer box and keep the pouch closed until usage.

Pouch and blister are not sterile.



Intra-operative

- Dura mater should be closed with standard method of suturing.
- Rinse the dura mater surface from particles (such as bone dust) with physiological saline.
- **Dura mater surface should be moist** (remove excessive fluid if applicable).
- In case of bleeding, this should be stopped. Do not use LIQOSEAL® as a hemostatic agent.

Open the aluminium pouch and also the inner blister. **Both not sterile**



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DO NOT press LIQOSEAL® before application (white foam layer should not be compressed manually since it will not expand after being compressed).

Cut LIQOSEAL® into the required size by using a dry sterile instrument with the white side facing up.



Before placement on the dura mater; all other devices (such as hemostatic agents) should be removed to apply on a clean dura surface.

Place the white side of the dry LIQOSEAL® against the dura mater, **without pre-moistening the patch**, with a gap of maximum 3 mm or smaller.



Cover at least **5 mm beyond the margins** of the gaps at all edges. To position LIQOSEAL® correctly compress LIQOSEAL® **with the fingers**; compression of the foam fixates the patch and is necessary for adhesion.



For an **equal pressure distribution**; **Use a moist gauze and** cover the complete LIQOSEAL® with this gauze. Hold down LIQOSEAL® with a gentle pressure, equal to approximately. **one (1) kilogram for a minimum of two (2) minutes**

Remove the light pressure and gauze carefully after at least two (2) minutes. There is no residual product which needs to be removed since the entire LIQOSEAL® will fully resorb. **Avoid repositioning.**

Precautions : Do not apply more than 1 LIQOSEAL®

LIQOSEAL® can be used in procedures involving autologous and collagen based duraplasty materials, with the following limitations: large defects (>1 cm) can only be repaired with galea aponeurotica or periosteum since LIQOSEAL® does not adhere to collagen based substitutes, adipose or muscle tissue LIQOSEAL® should overlap the duraplasty material in all instances with a minimum of 5 mm on all sides on clean dura mater.

