



BROCHURE

AQUABRID[®] Surgical Sealant

Strong and elastic, ideal for wet conditions.

Developed for Wet Conditions

AQUABRID® is a fully synthetic surgical sealant for aortic surgical procedures.

In contact with water AQUABRID® forms an elastic layer within 3 to 5 minutes – making it optimal for use on wet conditions.^{1,2} AQUABRID® stretches and shrinks with contraction of the vessel, while maintaining a strong seal in the aorta.^{1,2}

AQUABRID® has been commercially available in Japan since 2014 under the name of HYDROFIT®.

Benefits of AQUABRID®



Reacts with water^{1,2}

Optimal use for wet surfaces, regardless of heparinisation conditions



Strong^{1,2}

Maintains bond/seal in the high pressure environment of the aorta



Elastic^{1,2,3}

Stretches and shrinks with the vessel contractions



Ready to use³

No manual mixing or preparation required



100% synthetic^{2,3}

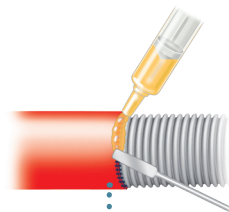
No biological origin or risk of infection

Application of AQUABRID®

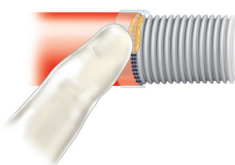
Only a thin layer of AQUABRID® is required.
The sealant is cured after 3-5 mins^{1,2}

Direct Method

Apply AQUABRID® directly from the syringe to the bleeding spot

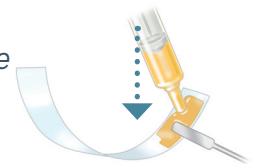


Place or wrap the silicone sheet around the vessel (if needed)

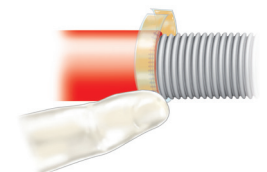


Transfer Method

Spread AQUABRID® onto the included silicone sheet for areas hard to reach



Place or wrap the silicone sheet on the bleeding spot

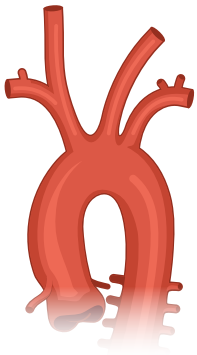


1. Eto M et al. Elastomeric surgical sealant for hemostasis of cardiovascular anastomosis under full heparinization. *Europ. J. Cardio Surg.* 2007; 730-734.

2. Oda S. et al. Experimental use of an elastomeric surgical sealant for arterial hemostasis and its long-term tissue response. *Interac. Cardio. and Thor. Surgery.* 2010; 258-261.

Ideal to Support Aortic Anastomosis

Due to its hydrophilic properties AQUABRID® can be applied to the aortic anastomosis immediately. It stretches and shrinks with the vessel contractions while maintaining a strong seal.^{1,2}

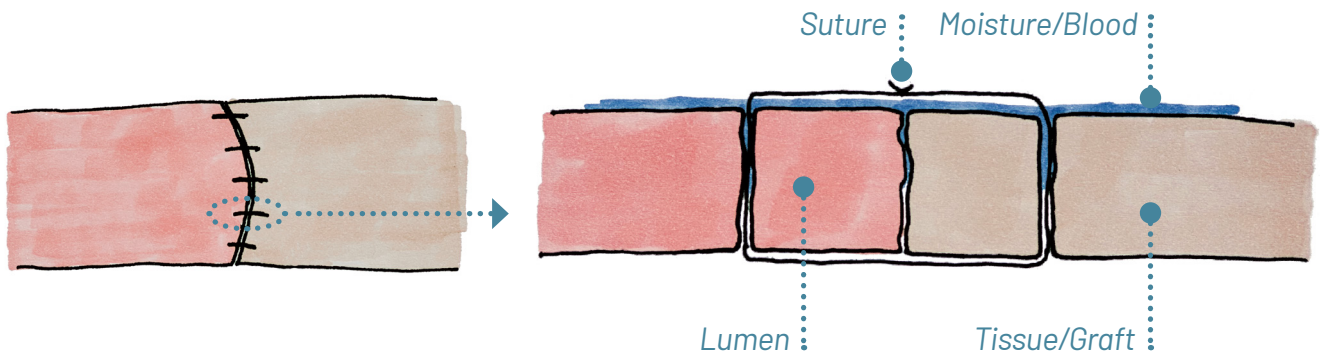


Reduction in time associated with bleeding control⁴

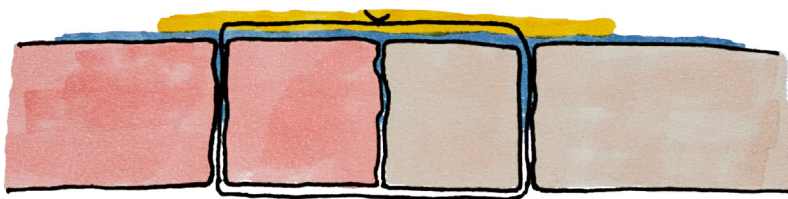
Reduction in number of blood transfusions⁴

How does AQUABRID® work?

AQUABRID® can be applied to natural and/or artificial tissue (e.g. aortic graft). The surgical site does not need to be dry, AQUABRID® requires blood/moisture for reaction.

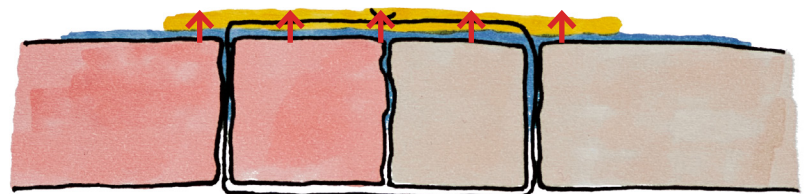


AQUABRID®



A thin layer of AQUABRID® (liquid) is applied to seal the suture holes.

AQUABRID® absorbs the moisture/ blood and doubles its regional volume.



AQUABRID® forms an elastic film after polymerisation with CO₂ release.

This curing process takes 3-5 mins.^{1,2}

3. AQUABRID® Instructions for Use.

4. Matsuoka, Tadashi *et al.* "A surgical sealant, AQUABRID decreased the volume of intraoperative blood transfusions and operative time for acute aortic dissection repair." *Journal of Cardiac Surgery*. Vol. 37,12 (2022): 5073-5080. doi:10.1111/jocs.17208



Committed to Aortic Care



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 Distributed by: Vascutek Ltd, Newmains Avenue, Inchinnan, Renfrewshire PA4 9RR, United Kingdom

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