

# Coseal Easyspray Quick Setup Guide



## Instructions for Scout Nurse



1  
Connect Spray Set filters to Easyspray device. Connect blue filter to the blue female luer connector and the clear filter to the male luer connector.



2  
Turn the on/off switch on the front side of the EASYSPRAY to the ON position.

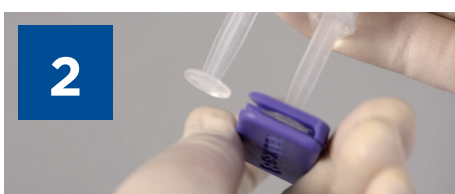


3  
Check the gauge on the EASYSPRAY device for the appropriate pressure range of 1.5-2.0 bars (21.5-28.5 psi). Adjust pressure setting by turning the black pressure control knob.<sup>1</sup>

## Instructions for Scrub Nurse



1  
Prepare COSEAL Surgical Sealant according to the Instructions For Use.



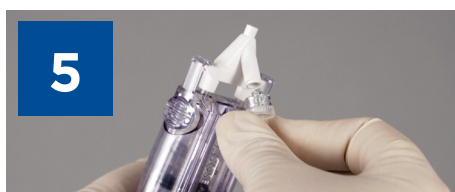
2  
Remove the standard plunger clip on the COSEAL unit and obtain the COSEAL clip provided in the sprayset packaging.



3  
Attach the EASYSPRAY clip to the back of the syringe plungers. There are two rows of slots on the clip. The first row of slots is for the 4/8 mL kits, and the second row is for the 2 mL kits.



4  
Obtain spray head from sprayset packaging. Firmly attach the spray head to the hubs of the syringes, ensuring the clips lock on both sides.



5  
Fit the spray tubing of the sprayset onto the luer-lock connection on the underside of the sprayhead.



6  
Pass the end of the spray tube with the sterile filters to the scout nurse. Pass the assembled COSEAL unit to the surgeon for spray application.

## Set-up Guide



1  
Insert 9V battery into the EASYSPRAY pressure regulator device.



2  
Connect EASYSPRAY device to IV pole or cart rail using the clamps on the back of the device.



3  
Use suitable connection tube to connect EASYSPRAY device to compressed medical air. (Ranging 3.5-7 bar, 50-100psi).

## Important Points

- Spray from a distance of 10-15cm for optimum results (minimum spraying distance being 10cm).<sup>1</sup>
- To activate the flow of gas, occlude the opening in the clip center with thumb. To begin application, gently depress the syringe plunger.

References: 1. Coseal sprayset Instructions for Use

# Coseal [Surgical Sealant]

## Instructions for use

### Product Description

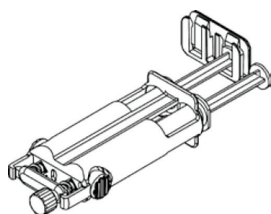
Coseal Surgical Sealant (Coseal) is a synthetic hydrogel designed to act as a sealant around a sutured site in cardiovascular and thoracic surgery and in patients undergoing cardiac or abdomino-pelvic surgery to prevent or reduce the incidence, severity and extent of postsurgical adhesion formation. Coseal is composed of two synthetic polyethylene glycols (PEGs), a dilute hydrogen chloride solution and a sodium phosphate/sodium carbonate solution.

These components come in a kit that includes an applicator(s). At the time of administration, the mixed PEGs and solutions form a hydrogel that adheres to tissue, synthetic graft materials and covalently bonds to itself.

The Coseal kit includes:

#### Liquid Components Pouch

The Liquid Components Pouch consists of two syringes, containing solutions, which are preassembled into a housing. A transfer port closure is attached to the housing assembly to allow mixing of the PEG powders into the correct syringe. A clip is attached to the plunger rod of the syringe that does not require mixing with the PEG powders.



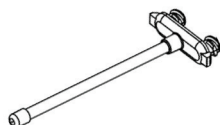
#### Powder Component Pouch

The Powder Component Pouch consists of a syringe containing two PEG powders and a desiccant packet.



#### Applicator Pouch

Each applicator pouch contains two applicators



## Indications

Coseal is indicated for:

- Sealing suture lines along arterial and venous reconstructions.
- Enforcement of suture and staple lines in lung resection procedures.
- Patients undergoing cardiac surgery to prevent or reduce the incidence, severity and extent of post surgical adhesion formation.
- Patients undergoing laparotomy or laparoscopic abdomino-pelvic surgery as an adjunct to good surgical technique intended to reduce the incidence, severity and extent of post surgical adhesion formation.

## Contraindications

Do not use Coseal as a bronchial stump sealant, during bronchial sleeve resections, or for sealing decorticated lung areas.

Do not use Coseal in procedures in which pleural adhesions are desired.

## Warnings

Application involving the use of pressurized gas may be associated with potential risks of air embolism, tissue rupture, or gas entrapment with compression, that may be life-threatening. To minimize these risks control the maximum pressure as indicated in the applicator instructions for use.

Do not inject Coseal into vessels.

Do not use in place of sutures, staples or mechanical closure.

To prevent any compressive effects, in compression-sensitive cavities or in patients with an increased risk of compression (e.g. neonatal cardiac procedures), application of a thin layer of product is recommended (1 mL per 10 cm ).

Coseal swells up to four times its volume within 24 hours of application and additional swelling occurs as the gel resorbs. Therefore, surgeons should consider the maximum swell volume and its possible effect on surrounding anatomic structures potentially sensitive to compression.

Do not use Coseal in contaminated or "dirty" pulmonary resection cases.

## Precautions

To prevent any lines, catheters or pacing wires from being sealed onto the surface of moving organs, (heart, lung or bowel) either place these after the application of Coseal or lift the device to allow application of Coseal directly onto the tissue surface. Allow 60 seconds of polymerization time prior to laying to implant on top of the polymerized Coseal.

To apply Coseal for adhesion prevention, use the Coseal Spray Set or other Coseal-compatible spray device. Hold the spray set 5-10 cm from the site to provide a uniform layer to the treatment site.

The safety and performance of Coseal have not been established in pregnant women.

In vivo testing demonstrated a mild skin sensitization response in an animal model. Similar testing in humans has not been conducted.

During clinical investigations, the volume of Coseal used per patient ranged from 2 mL to 24 mL. The maximum volume of Coseal to be used per patient will be based upon the surgical procedure. The safety of Coseal has not been evaluated in patients receiving more than 24 mL of Coseal.


Do not apply Coseal over any devices or objects that will need to be removed. Coseal must not be used as a mechanism of adherence, even temporarily, for any object.

Always apply a thin, continuous layer of Coseal on large surfaces or in compression-sensitive areas using spray application. The application of excess product can be avoided by applying a minimal amount of Coseal to achieve proper sealing. A thin layer can be achieved by spraying a thickness of approximately 1 mm of product (1 mL per 10 cm ).

## Adverse Events

During the European and US Coseal sealing clinical studies, there were three adverse events attributed by investigators to Coseal (one fever, one hematoma and one infection). No other adverse events reported in the multicenter clinical studies were attributed to Coseal.

During the manufacturing sponsored European adhesion prevention clinical studies, no adverse events were attributed to Coseal. No increase in frequency of adverse events has been noted with the use of Coseal in adhesion prevention procedures compared with surgery alone, however, as with any surgically implanted biomaterials there may be the potential for adverse reactions, including infection, foreign body reaction, allergic reaction, pneumoperitoneum complications, increase in adhesions, and transient compromised kidney function.

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