

CoralCure Black Band Disease Ointment Storage, Loading & Application Instructions

Storage Instructions

- CoralCure Black Band Disease ointment may be stored at room temperature
- Do not allow product to heat above 40°C / 104°F or separation will occur
- For long term storage, product may be stored a refrigerator to extend its shelf life
 - Be sure to remove product from the refrigerator at least 6 hours before use as product will be difficult to extrude when chilled
- Once opened, minimize air exposure of product by tying off the casing with a zip tie

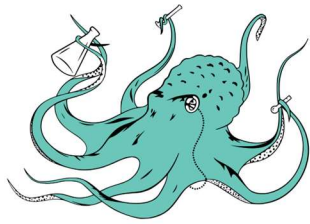
Loading Instructions



- Press down on the release plate and pull the plunger out to the fullest extent.
- Remove the tip retention ring from the front of the caulk gun by unscrewing it.



- Cut the metal closure off of the top of the product tube. The top will be the side of the tube that has excess casing material.



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- Insert the product tube into the caulk gun barrel.
 - Twisting the tube will help with insertion, if necessary, deform the product using your hands.



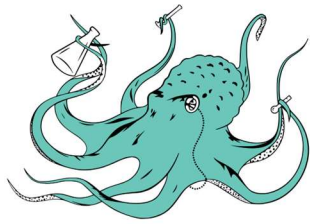
- If necessary, roll open any excess casing to create an opening for the product to pass through.



- Place the 3D printed extrusion tip over the top of the caulk gun opening.



- Reattach the tip retention ring by placing it over the extrusion tip and screwing it into the barrel of the caulk gun.
- The product is loaded and ready for application onto corals with Black Band Disease!



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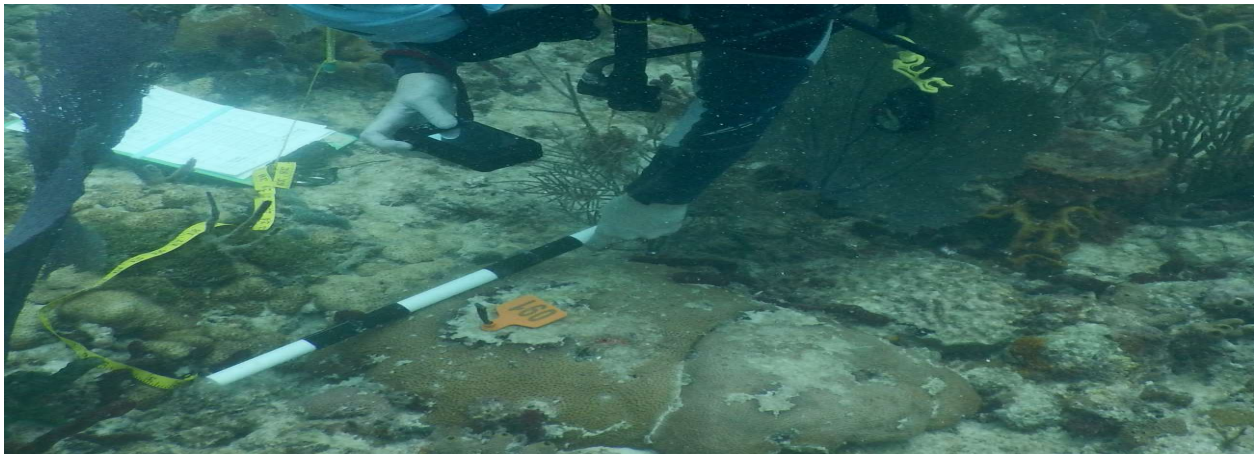
Application Instructions



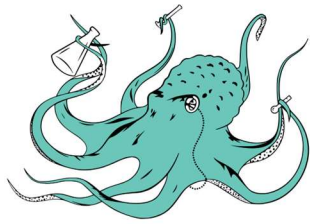
- Once the disease has been identified, treatment can begin. This is an example photo of Black Band Disease on a *Montastraea Cavernosa* (MCAV) colony.



- If fate tracking or efficacy trials will be performed, an ID tag can be placed on or near the infected coral. Otherwise, this step may be skipped.

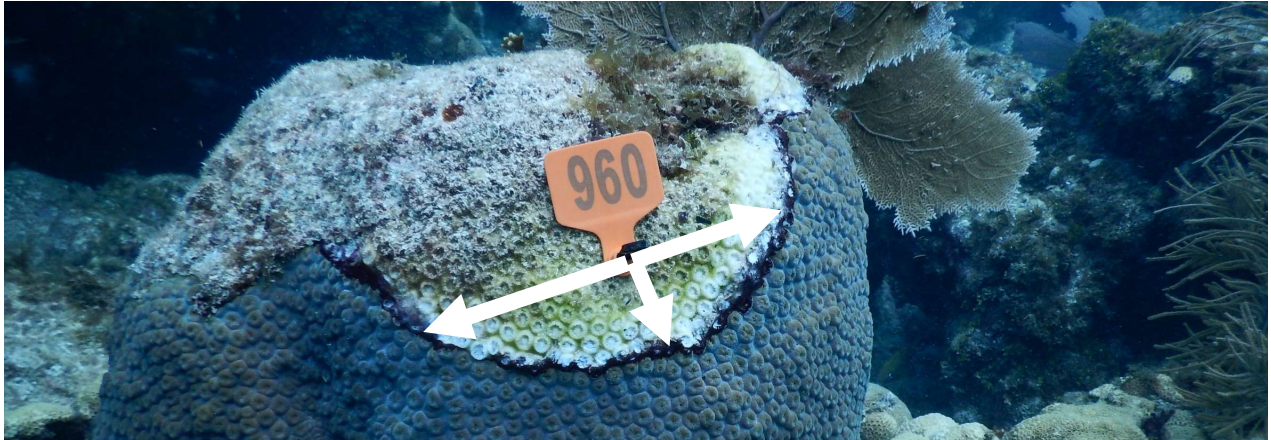


- If fate tracking or efficacy trials will be performed, photos may be taken before and after the application using a reference stick. Otherwise, this step may be skipped.

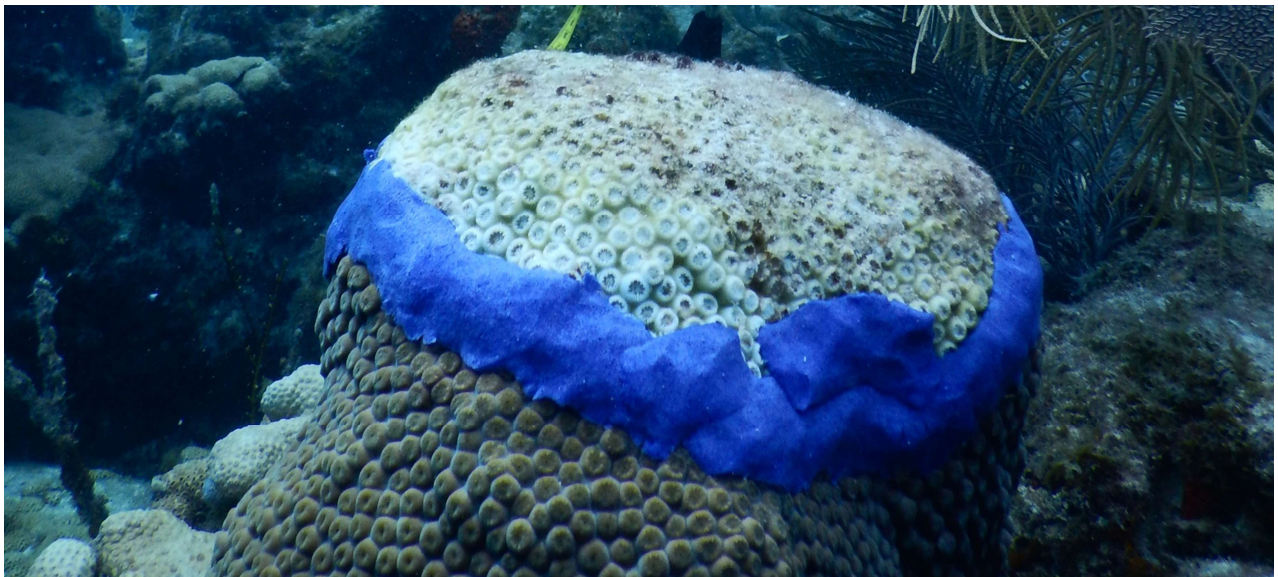


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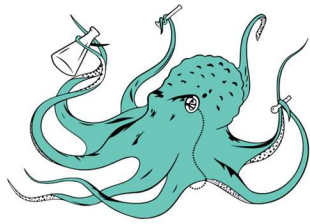
- If fate tracking or efficacy trials will be performed, measurements may be taken before and after application. Otherwise, this step may be skipped.



- One method of measurement is to use the ID tag nail as reference to measure the distance from the tag nail in at least 3 directions (left, center and right) to the disease margin before application and to the treatment after application.
- Extrude ointment from the sausage gun by pressing the sausage gun trigger



- Apply ointment strip over top of the disease margin, making sure to cover the entire black band with a small amount of ointment overlap into both the healthy tissue on one side and the exposed skeleton on the other.



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- For best results start by placing the ointment on the healthy tissue side and gently press the edge of the ointment application into the tissue making sure there are no gaps in the application. Then do the same pressing method into the exposed skeleton side of the application. Continue until entire band is covered.
- If the exposed skeleton has algae growth, it is best to remove this with a small scrub brush as the ointment will have poor adhesion onto the algae.
- Please note: all healthy tissue underneath the treatment will be lost, however since the cyanobacteria in BBD is highly mobile, it is important to have a reasonable amount of overlap into the healthy tissue.
- If fate tracking or efficacy trials will be performed, treated corals should be revisited after 1 month to determine if treatments were effective. New photos and measurement can be taken at this time.

Post-Application Instructions

- CRITICAL STEP: Remove the piston end of the caulk gun by unscrewing it from the barrel of the caulk gun. Dip the piston in at least 1% vinegar solution to avoid rusting. The piston is not stainless steel and will rust after a few uses if this step is omitted.
- Wrap cellophane around the piston tip to keep the ointment from drying out, ointment can be stored in the caulk gun until next use.
- Ointment can be cleaned from the caulk tip by using hot soapy water.

Please feel free to reach out to us if you have any questions or concerns! OceanAlchemists.com