



Freestyle Libre covers For Libre 1, Libre 14 and Libre 2 sensors

K KenW

VIEW IN BROWSER

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Summary

2 Styles of covers to work with adhesive patches.

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These covers make removing the tape used to hold a sensor on easy to remove if needed without tearing the sensor off. There is a template so you can make your own adhesive patches. This is used with the larger cover.

The smaller cover works with a Tegaderm 1624W when swimming or boating. A plus is the smaller cover also works well with a Simpatch.

If you do not want to cut your own patches for the larger cover these work well if you do not mind the color. They do cover the hole but the [perfecore.com](https://www.amazon.com/dp/B07S9CCCRN/) website says they are breathable. <https://www.amazon.com/dp/B07S9CCCRN/>

For cutting your own with the template I found Leukotape K Therapeutic Kinesiology Tape 3" x 5.4 Yard works well. You will get over 60 covers out of a roll. They hold up well. I have gotten the full 14 days out of both the tape and Simpatches. I do apply some Skin Tac to the skin before the Sensor is applied with it extended enough for the patch. Afterwards clean up the skin with alcohol.

For the smaller cover a SIMPATCH Adhesive Patch fits nicely and for water exposure a Tegaderm 1624W works well. Do not cut the hole out on the Tegaderm since you want to keep water out.

The Simpatch will not fit onto the cover so you will need to shape it over it. A plus is you can remove the tape, place the cover on the patch then flip it over and shape the patch over the cover. I was able to easily place this over the sensor and smooth it down all by myself on the back of the arm. Try doing that with a Simpatch minus the cover. And removal is easy, peel off the patch and the cover also comes off leaving the sensor behind.

Yardwork is why I started looking at covers. The sensor started coming loose and the first Libre patches purchased from Amazon did not hold well on my skin and held really well on the sensor. So the sensor was almost pulled off. It required my wife to help remove the tape.

I used 95 A TPU for the covers printed at 100%. The template can be 0.8 top and bottom with 15% infill. Use 1.2 to 1.6mm for the sidewalls on the template. The covers can be printed as shown. If you do not like the inside being rough you can flip them. I did not like the flat surface that resulted on the face of the covers so I purchased a glass bed with a pattern on the top surface and printed them on it upside down.

For either direction they will need supports touching the bed Use the template to draw the design on the back of the patch and cut it out using a fresh razor blade or a very sharp Xacto knife. When ready to use it carefully peel the backing off the patch with it adhesive side up on the template. Then place the larger cover with the petals over it and push it into the template. After that you can push it out and carefully place it over your Sensor. Or if you want do not cut the hole out and use the smaller cover. Just treat it like the Simpatch and place the cover over the patch after you remove the backing

Model files

freestyle_libre_cover_for_simpach.stl



freestyle_libre_cover_v5.stl





freestyle_libre_template.stl

Other files



readme.txt



license.txt

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