

SRA #135 Rosin Flux Paste - User Guide

**SOLDERING**

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About:

[SRA #135](#) is a petrolatum-based soldering flux, containing Rosin and organic acid activator. Unlike many paste fluxes, it contains NO Zinc Chloride or Ammonium Chloride, making it ideal for electrical and electronic repairs. The Rosin also leaves a protective coating over the soldered area that can prevent corrosion.

- Ideal for electrical and PCB repairs
- Does not need to be cleaned
- Contains 2 ounces (56.6 grams) in a "Hockey Puck" jar
- Type RA (Rosin-Activated) Flux
- Active Temperature Range is 93 - 315°C / 200 - 600°
- **SKU:** [FLS135](#)
- **Dimensions:** 2.5" Dia x 1" H (64 x 25.5 mm)
- **Weight:** 2.5 Oz (70.8g)

Why use Flux?

[Flux](#) is necessary to form a proper electrical connection because solder **CANNOT** bond without it. Soldering without a good flux is like trying to put a new registration label onto your windshield without wiping off the layer of dirt that has accrued on it since last year. The surface needs to be clean so the adhesives on the label can do their job. If you

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the flux were clearing a path for the solder and telling it where it to go. For many soldering applications, using only flux-core solder wire is sufficient. However, there are some distinct benefits of adding an externally applied flux such as the #135 paste. These benefits include:

1. **More control over where the solder will travel** - Wherever you apply the flux, the solder will flow to.
2. **Expedites the soldering process** - It takes less heat and time to get the solder to flow where you need it.
3. **Results in a stronger connection** - The flux allows the solder to bond properly throughout the target area.
4. **Protects the solder joint** - This Rosin paste not have to be cleaned off after soldering and the residue actually provides a protective coating from corrosion.

Inspecting the Flux:

Open the #135 Flux "puck" container by turning the lid and lifting off. The SRA #135 flux is an amber colored paste. The consistency of the flux should not be gooey or hard to puncture. In other words it should be solid but also easy to dip wires and applicators into. If you see crystallization (Rosin hardening) at the surface of the flux this is absolutely normal and **NOT** an indication of expired or tampered with flux.

More Information about Rosin Hardening:

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which are caused by the levels of temperature used during manufacturing, as well as ambient temperature. The product is made under controlled temperature parameters, but there is a margin of deviation. In addition, Rosin is a natural-derived product that varies in color, and this can also affect the appearance of the crystals. The crystals do not negatively affect performance.

Using the Flux:

As noted in the previous section, flux is self-cleaning in that its job is to dissolve oxidation. However, it is recommended to clean surfaces to be soldered prior for the best results. If your parts are heavily corroded then this will be necessary. Prep the surfaces by removing any dirt, rust, grease, paint, and other contaminants with sandpaper, wire brush, steel wool, etc. For many applications, the residues can be removed with just a rag and some isopropyl alcohol. These impurities may prevent solder flow so it is

important not to proceed until clean metal is visible. For very critical applications follow these steps to ensure a proper cleaning.

1. De-grease with an organic solvent.
2. Rinse in hot water containing 2% hydrochloric acid (HCl) solution.
3. Use as many hot deionized water rinses as necessary.

What Tools to Use:

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Various tools can be used as an applicator for the flux including toothpicks, acid brushes and spatulas. As mentioned earlier, one of the benefits of paste flux opposed to liquid is that it will stay put wherever you apply it. Using your applicator of choice, apply the flux to the target areas you are about to solder. Make sure to apply it only where it is needed to prevent solder bridges and unnecessary mess.

How Much to Apply:

The exact amount you apply will depend on the application but in general just use enough to cover the entire area to be soldered with an even coating. Remember that the solder will flow to where the flux is. You don't need the flux to be caked on, shoot for even coverage. And don't worry if you apply a little too much to a given area as it will get burned off in the process anyway.

Common Applications:

One of the most common applications and where the #135 flux really shines is [soldering copper wire](#) in bare or tinned form. To do this you will twist together your stranded wire and tinned the tip you'll want to solder it all together. Follow that by taking the wire into the #135 flux until the part to be soldered is covered. Now apply the solder and watch as it flows throughout bonding the wires together in one solid piece. This is much easier than dragging the iron around and trying to get the solder to flow up and down. The flux attracts the solder everywhere you need it automatically so you don't have to and results in a stronger bond. Once finished, remove heat and allow to cool. Any residue can be removed with [isopropyl alcohol](#) and a rag if wanted. Now your newly soldered wire is ready to be shaped and connected up in your project! Another

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you're ready to go!

Maintenance:

Keep the container closed after use and store in a cool and dry place. If done properly, the shelf life will be approximately 2 years. Since the paste is a hardened form, it will perform longer than a liquid flux would. It's solid form also means you don't have to worry about the flux dripping out and making a mess. This is especially important if you're carrying it around with you in a tool box or repair kit.

Safety Precautions:

WARNING: Contains Petrolatum, Rosin, and an organic flux activator. Keep out of reach of children. Do not store near heat, as Petrolatum melts at 135°F. Always solder in a well-ventilated space. Wear suitable gloves and eye/face protection. Inhalation of fumes can cause injury to the respiratory tract and skin. In case of external contact, wash with soap and water and remove contaminated clothing immediately. For eye contact, flush with water for 15 minutes and get immediate medical attention. If swallowed, give plenty of water or milk and call a physician. In case of accident or if you feel unwell call for medical advice immediately. INFOTRAC - 24/7 Emergency Response Contact Phone: 800-535-5053 Website: <https://www.infotrac.net>

Downloads:

[Safety Data Sheet \(SDS\)](#) [Technical Data Sheet \(TDS\)](#)

Media and Reviews:

What is Flux? - Solder Series: Ep. 4



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Rosin Paste Flux #135 (FLS135) 2oz from...

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Frequently Asked Questions:

1. Is it effective when working to simply dip the solder wire into the flux and solder or is it significantly better to apply to the joint and why? You want to apply the right amount of flux. Too little and you won't get good soldering results. Too much and you run the risk of the solder flowing where you don't want it to, since solder follows flux. So to answer the question, you want to apply the flux in the manner that will best ensure you lay down the right amount. Usually this means using a tool to apply the flux to the area being soldered and not dipping the part into the #135. SRA #135 is not runny, and if you dip the part into the flux, you might not get enough flux on it. That being said, I am sure there are people who do dip their part into the #135 flux and get good results.

2. Is it advisable to heat up the flux with a heat gun if it is too hard/solid? You would want to do this very carefully since you don't want the ingredients in the flux to separate. Quick, intense heat could cause the flux to separate into disparate ingredients. While this is not too likely, it can happen.

3. If the Rosin flux becomes dry is there anything you can do to return it to more of a paste? You would want to gently heat it until it softens up, but you need to be careful not to heat it up too quickly or at too high of a temperature.

4. Does dipping your soldering iron directly into the flux help keep the tip clean, are there any benefits? Not a great idea. It wouldn't be good for the solder iron because if you get too much Rosin on a solder iron, it can be hard to clean off. Also, it can cause the flux to separate. Better to put the flux on the part that you are soldering, and to then apply the solder wire and solder iron to the area where the flux is. Of course, the solder iron will usually contact the flux, but you don't want to "bathe" the soldering iron inside the flux by sticking it in the flux jar.

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