What is the white residue on my board after using the flux remover?

A. The residue in dissolved flux that has not been washed off the board. Cleaning flux off a circuit board is more involved than simply spraying a cleaner onto it.

Close up: Chalky, white flux residue on board

IMPORTANT

Removing flux is a two-step process. The first step is dissolving the flux. The second step is rinsing off the dissolved flux. The rinsing step is very important because after dissolving the flux it may appear that the solids in the flux have disappeared, but once the flux remover has evaporated away, the solids will re-deposit on the board as white residue.

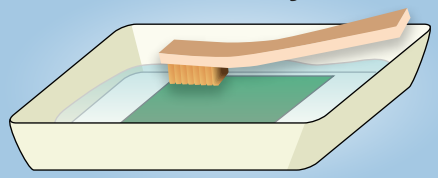
Step 1: Dissolving the Flux

If you are using flux remover in aerosol form, spray a little flux remover onto the flux, then agitate with a hog hair cleaning brush. If you are using our 4140 Flux Remover, you may spray it liberally, as it is safe on your components. If you are using 413B Heavy Duty Flux remover, you may spray it liberally on the solder side of the board, but be careful to only apply it directly to the flux contaminated area if you are using it on the component side of the board, as it will harm some components. The 4140 is plastic safe so it may be applied liberally. Have a can of 413B handy in case you run into a patch of burnt-on difficult to remove flux.

If you are using flux remover in liquid form, pour the flux remover into a tray. If you are using 4140 Flux Remover, you may then submerge the PC board into the tray, agitating the flux with a hog-hair brush. If you are using 413B Heavy Duty Flux Remover, you should not submerge the board into the tray, as the components will be damaged. Instead, wet the hog-hair brush you are using by dipping it into the tray, and then use it to agitate the flux on the board. Periodically rinse and re-wet the brush by swishing it in the flux remover.

All M.G. Chemicals flux removers are RoHS Compliant

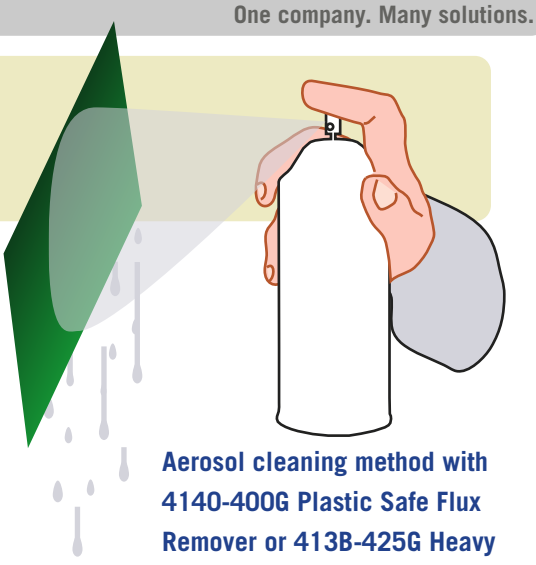
If you are using flux remover in liquid form, pour the flux remover into a tray.



Plastic Safe Only
Cat. No. 4140

E-mail salesusa@mgchemicals.com
Phone 1-800-201-8822 Ext. 130
1-604-888-3084 Ext. 130
Fax 1-800-708-9888
1-604-888-7754

Step 2: Rinsing the Board

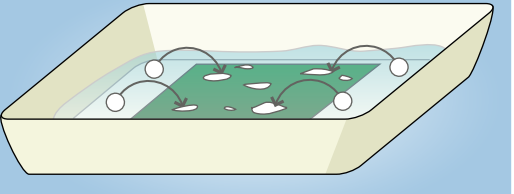


Aerosol cleaning method with 4140-400G Plastic Safe Flux Remover or 413B-425G Heavy Duty Flux Remover

You must ensure that you rinse off the dissolved solids completely before the flux remover evaporates and the solids re-deposit. If you are using flux remover in aerosol form, the easiest way to do this is to hold the board vertically and liberally apply more flux remover until you see the flux remover running off of the board. If you have dissolved the flux by submerging the board in liquid flux remover, just dip the board into the tray and swish the flux remover and you should be ok.

If you have been using the particular tray to dissolve flux on a number of boards, dissolved flux may accumulate in the tray and dipping the board may actually deposit flux solids onto the board. In this case you will want to either set up a separate tray for rinsing, or have an aerosol can handy for rinsing. A particularly good option for rinsing dissolved flux off of a board is to use our 406B Super Wash. Super Wash comes in a large aerosol can, allowing for liberal use, and it dries very rapidly. Super Wash will rinse off un-evaporated flux remover as well as flux solids, and almost immediately after rinsing your board, it will be dry and ready for service.

When rinsing many boards, dissolved flux may accumulate in the tray and dipping the board may actually deposit flux solids onto the board.



Tray method with liquid flux remover

Products Discussed

Stock Code	Product Name	Size	Form
4140-400G	Plastic Safe Flux Remover	14 oz (400 grams)	Aerosol
4140-500ML	Plastic Safe Flux Remover	17 oz (500 ml)	Liquid
4140-1L	Plastic Safe Flux Remover	33 oz (1 liter)	Liquid
413B-425G	Heavy Duty Flux Remover	15 oz (425 grams)	Aerosol
413B-1L	Heavy Dusty Flux Remover	33 oz (1 liter)	Liquid
406B-450G	Super Wash Cleaner / Degreaser	16 oz (450 grams)	Aerosol
852	Hog Hair Cleaning Brush	7¾“ in length	Brush

Larger sizes available for liquid forms.

E-mail salesusa@mgchemicals.com
Phone 1-800-201-8822
1-604-888-3084
Fax 1-800-708-9888
1-604-888-7754

For technical specifications, MSDS, tech support and more
www.mgchemicals.com

To customize this AppGuide for your own use please email
info@mgchemicals.com

ISO 9001:2000 Registered Quality System. QMI Certificate #004008 Toronto, Canada.

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001
Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:
moschip.ru
moschip.ru_4
moschip.ru_6
moschip.ru_9