

Additional Instructions

Detailed Instructions

Step One (Unprimed Stencil):

Take clean stencil and hold under running water for a few seconds, if the water does not wet out evenly onto the stencil (see illustration to the right), then the stencil still has surface contaminants and needs to be primed with Aculon Primer (Part A).

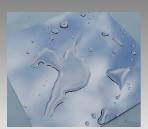


Illustration of unprimed stencil, water beads up unevenly on surface.

Take the Aculon Primer wipe and apply as per the instructions on the pouch (Part A) to remove remaining contaminants. If the stencil still does not appear to be primed after using Part A, use the troubleshooting instruction to the right.

Step Two (Primed Stencil):

After using Aculon Part A rinse the stencil under running distilled or deionized water for at least 60 seconds. Please note a primed stencil will have an unbroken film of water that should remain on the surface without beading up for 30 seconds. If the stencil looks like this, then completely dry with a cleanroom wipe and proceed to the application of a new Part B.

Step Three (Treated Stencil):



Illustration of a treated stencil, water droplets bead tightly on the surface.

Upon opening, immediately apply Aculon Nanoclear Part B by wiping it on the stencil for one minute. Wipe off excess coating with a cleanroom wipe. You can treated stencils' performance by evaluating if water droplets bead tightly on the surface and shed from the stencil easily when tilted. You can also confirm via Aculon Dyne Pen.

Troubleshooting

Troubleshooting Part A:

The stencil does not appear to be primed after using Part A:

- Re-apply Part A, rubbing the surface with the wipe for 1 minute. Let the chemistry sit on the surface for 5 minutes, then rinse under running water (Distilled or de-ionized water is preferred) for 2 minutes.
- Reevaluate whether the stencil supports a clean, unbroken film of water. If so, dry the stencil completely with a cleanroom wipe and move to Part B.
- If the stencil does not appear primed then:
 - Run the stencil through a stencil washer then wipe the surface down with a solution of 70/30 IPA/water and a cleanroom wipe for 1 minute. Ensure that the surface is shiny and clean with no streaks or residues.
 - Take a new Part A pouch and apply as per the instructions.

Troubleshooting Part B:

If after application of Part B the treated stencil does not repel water as shown in the picture to the left, then:

- Using a new wipe, apply the Part B again by wiping it on the stencil for one minute, paying special attention to areas that did not seem very water repellent after the first attempt. Wipe off excess coating with a cleanroom wipe and reevaluate the water beading effect of the coating.
- If it is ok, the coating process is complete, if not, then:
 - Ensure that all Part A primer has been rinsed from the surface prior to application of Part B. Part B can be deactivated if any Part A Primer remains on the surface.
 - Ensure that the Part B wipe is used immediately after opening the Part B pouch. The Part B loses its effectiveness if allowed to sit open prior to use.
 - Following the instructions, repeat the application of Part A and Part B.

Frequently Asked Questions

- Q: Does Aculon NanoClear treat the aperture walls?
- A: Yes, Aculon NanoClear will treat both the surface and the apertures.
- Q: What types of stencils does Aculon NanoClear treat?
- A. Test results confirm that Aculon Nanoclear treats all the major types of stencils including stainless steel, nickel, Epolish, and E-form stencils.
- Q: How do I know if the treatment is there?
- A. The Aculon NanoClear treatment can be confirmed by either observing if a water droplet beads up or by utilizing the Aculon NanoClear Dyne Test Pen.
- Q: My treated stencil does not seem to be repellent?
- A: The most common cause of a failed treatment is improper rinsing after the Part A Primer. Be sure that the Part A is rinsed from the stencil with copious amounts of DI water to ensure complete removal of excess primer. Once the stencil has dried after rinsing, treat again with the Part B.
- Q: Will Aculon NanoClear contaminate the flux?
- A. No, the proprietary technology in Aculon NanoClear covalently bonds with the metal forming a nanoscale treatment, only 2-4 nanometers thick. Even if some of the treatment were to come off into the flux the level of contamination would be so miniscule it would not be measurable even via the most sensitive analytical instruments.
- Q: How do I know if my stencil is ready to be treated?
- A: The stencil has been cleaned in a stencil washer or is freshly out of the e-polish bath. The stencil is visibly clean prior to utilizing the Part A primer.
- Q: Why is my Part B Treatment wipe dry?
- A. The carrier solvents contained in Part B evaporate very quickly, often in less than one minute. DO NOT open the Part B wipe until you are ready to use it. Upon opening the Part B wipe, immediately apply it to your stencil.
- Q: Can I apply the Part B to more than one stencil?
- A: No, there are a specific amount of active ingredients in the Part B wipe to allow for proper coating of only one stencil. Coating of additional stencils will not yield desired performance and durability.



Metal Treatment Instructions for Use

For an instructional video or additional languages, please visit www.aculon.com

ENGLISH

Wear protective gloves!

Instructions

ACULON PRIMER

Step 1: Take metal/stencil from package or from automated stencil washer and wipe metal* with Part A for 60 seconds and leave for

Step 2: Rinse with running water for at least 1 minute (For best results use DI or distilled).

Step 3: Wipe dry with clean room wipe.

ACULON NANOCLEAR Part B:

Step 1: Complete Part A Instructions

Step 2: Open Part B, use immediately, wiping Aculon NanoClear onto metal* for at least 60

Step 3: Remove excess with clean room wipe

*If used on stencil, wipe stencil underside

DEUTSCH (German)

Tragen Sie Schutzhand

ACULON PRIMER PART A:

Schritt 1: Nehmen Sie die metall/Schablone aus der Schablonenhülle oder aus der automatischen Schablonenwaschanlage und wischen Sie die metall* sehr gründlich mit PART A ACULON PRIMER für 60 Sekunden und lassen Sie für 30 Sekunden.

Schritt 2: Mit Wasser abspülen (verwenden Sie destilliertes Wasser, um das beste Resultat

Schritt 3: Wischen Sie die Schablone mit einem sauberen Tuch trocken.

ACULON NANOCLEAR™

Schritt 1: Führen Sie die in Part A erläuterten

VANOCLEAR, sofort zu verwenden, wischte Aculon NanoClear metal* für mindestens 60 Offene Teil B ACULON

Schritt 3: Wischen Sie überschüssiges ACULON NANOCLEAR mit einem sauberen

Wenn auf Schablone verwendet, wischen

简体中文 (Chinese)

使用说明:

戴安全手套

A 部分: ACULON 底漆

,30秒,让干 第1步:采取以金属/钢网擦拭,A部分为60秒

第2步:用水清洗

(为了达到最佳的清洗效果

最好用蒸馏水)

第3步:用干净的抹布擦干

ACULON NANOCLEAR™ 漆

第1步:完成A部分的说明

ACULON NANOCLEAR™ 到至少60秒 步骤2:打开B部分,即时使用,擦净金属

第3步:用干净的抹布将多余的漆擦净

*使用钢网,擦拭底部

FRANÇAIS (French)

Instructions Porter des gants de

APPRÊT ACULON PARTIE A:

Étape 1: Sortir le métal/pochoir de son emballage ou de la machine automatique de nettoyage et frotter métal* avec l'APPRÉT ACULON (PARTIE A) pendant 60 secondes. Laisser reposer pendant 30 secondes.

résultats, utiliser de l'eau distillée). Etape 2: Rincer à l'eau (pour de meilleurs

Étape 3: Essuyer l'excès d'eau à l'aide d'un chiffon propre.

REVÊTEMENT ACULON NANOCLEAR™ PARTIE B

Étape 1: Suivre les instructions de la Partie A

Étape 2: Étaler le ACULON NANOCLEAR™ PARTIE B sur le métal* au moins 60 secondes

Etape 3: Essuyer le produit en excès à l'aide d'un chiffon propre.

*Si elle est utilisée sur stencil, essuyez fond de

本語 (Japanese)

使用方法 安全手袋を装着してください

ACULON プライマー

手順1:金属/ステンシルを取り出し、ステンシル60秒間の下面をACULONプライマー (パートA) でしっかりと拭いて、30秒間その状態で放置してください

手順2:水で洗い流してください (Dl、又は蒸留水を使用することで、最良の結果を得ることが、できます)

手順3:清潔な布で水分を拭き取ってください

ACULON NANOCLEAR™ コーティング

手順1:パートAの手順を完了させてください

手順2: 金属上の (パートB) ACULON NANOCLEAR™ 英 で60秒間

手順3:余分は清潔な布で拭き取ってください

*ステンシルを使用している場合は、 ル裏面を拭く ステンシ

Instrucciones
Usar guantes de seguridad

ESPAÑOL

(Spanish)

ACULON PRIMER PARTE A:

empaque original o fuera de la maquina de lavado automático y proceda a limpiar vigorosamente la metal" de utilizando el empaque marcado como "Parte A" por 60 segundos, y dejar una capa de este material por un lapso de 30 segundos.

Paso 2: Enjuagar con agua (Para mejores resultados utilizar agua destilada).

Paso 3: Secar con un paño (cleanroom wiper),toallita o jerga limpia.

CAPA ACULON NANOCLEAR™ PARTE B

Paso 1: Siga las instrucciones de la PRIMERA MANO (PARTE A).

inmediatamente, apique ACULON
NANOCLEAR TM metal* inferior durante un
minimo de 60 segundos.
Paso 3: Remover El exceso con un paño
(cleanroom wiper), toallita o jerga limpia. Paso 2: Abrir el paquete

*Si se utiliza en stencil, limpie undersdie

한국어 (Korean)

지시사항 안전장갑 착용

ACULON 프라이머

(파트 A) 단계 1: 닦는다금속 /스텐실을 과과트 A 용 60초 간, 남겨용30초 간.

단계 2: 물로 헹군다(최선의 결과를 위해 증류수 또는 일산화 이수소 를 사용한다)

ACULON NANOCLEAR

단계 3: 남은 물기를 깨끗한 천으로

다극 유

(型트 B)

단계 1: 파트 A 지침을 완수한다

단계 2: 닦는다밑면금속* 과 ACULON NANOCLEAR파트 B 용 60초 동안.

단계 3: 잉여분(과잉 부분)을 깨끗한 천으로 닦는다

ITALIANO (Italian)

*스텐실을 사용하는 경우, 스텐실 밑면을

Istruzioni Indossare i guanti di protezione

ACULON PRIMER PARTE A:

strofinare vigorosamente utilizzando la Paper 60 secondi e lasciare riposare per 30 Fase 1: Trendere in metallo* / stampino, secondi

Fase 2: Sciacquare con acqua (per risultati ottimali utilizzare acqua distillata).

Fase 3: Asciugare con panno pulito il materiale in eccesso.

RIVESTIMENTO ACULON NANOCLEAR™ PARTE B:

Fase 1: Completare le istruzioni della Parte A.

Fase 2: Al 60 secondi Applicare Aculon B sulla metallo* per

Fase 3: Assorbire con un panno pulito il materiale in eccesso.

*Se usato su stampino, pulire fondo

