



## e9 Pro Series Metal Treatment Instructions for Dip, Wipe and Flush Applications

### **Dip Application Instructions:**

Verify you have the required equipment. The following items are provided with the Field Kit Dip Bucket.

- These application instructions
- 2 gallon or 5 gallon dip bucket with air-tight lid
- 1 pair chemically-resistant, nitrile gloves
- 10 Polishing cloths
- e9 Metal Treatment Safety Data Sheet
- e9 Metal Treatment (5L with the 2 gallon bucket or 20 L with the 5 gallon bucket)
- e9 Metal Heavy Duty Cleaner Concentrate (Optional)

In addition, you will need the following items that are not provided:

- Safety glasses with side shields
- Clean sponge or brush for cleaning parts to be treated
- Clean water to rinse cleaned parts
- Isopropyl alcohol

1. Be sure to wear the gloves provided, as well as safety glasses with side shields before continuing.
2. Clean the metal surface to be treated with e9 Metal Heavy Duty Cleaner (follow dilution instructions) to remove any oil, dust, or dirt residue. The treatment will not adhere properly to an unclean part.
3. Rinse the part with clean water and wipe the surface dry with a clean microfiber or lint free cloth. For internal part surfaces, rinse with Isopropyl alcohol to remove any residual water or blow dry with shop air, if available.
4. Open the e9 Dip Bucket. Make sure the bucket is empty and clean of dirt and debris.
5. Fill the bucket with e9 Metal Treatment to the level required to submerge the parts in the treatment. **DO NOT DILUTE THE TREATMENT.**
6. Dip the clean, dry metal part(s) into the e9 Dip Bucket for a minimum of 60 seconds (2 minutes preferred). If the part sits flat in the bucket, flip it over after  $\frac{1}{2}$  way through the dip time.
7. Shake the part to remove or dislodge any air bubbles and to ensure the treatment wets all surfaces of the part.
8. Carefully remove the part(s) from the bucket. Allow excess treatment solution to drain back into the e9 Dip Bucket. Part(s) will be dry to touch in a few seconds.
9. Wipe down the part to remove any streaks or residue using the cloth provided in the e9 Treatments Metal Field Kit package.
10. The e9 treated surface is now hydrophobic and oleophobic.
11. You may confirm a part is treated by performing the Dyne pen test detailed in these instructions.
12. Repeat Steps 1 – 12 for each part or group of parts to be treated.
13. When finished treating all parts, close the bucket using the air-tight Gamma Seal lid provided in the kit. Be sure the lid is tight to prevent evaporation of the treatment.
14. Store the treatment-filled bucket indoors in a dry, room temperature environment. The treatment may be reused until it starts to become cloudy or visibly contaminated.

### **Dyne Pen Test Procedure:**

You may test that a surface has been treated using the Dyne Pen provided with your e9 Metal Treatment. Simply swipe the Dyne pen across the surface. The liquid from the Dyne Pen should start to bead up within a few seconds on a treated surface, similar to the left side of the picture at right. Wipe off the remaining Dyne pen liquid after testing.

**If the Dyne pen does not bead up, the surface was not clean before treating. Re-clean and re-treat the part(s) to be treated.**





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### **Dip Bucket Cleaning Procedure:**

Remove any leftover treatment from the e9 Dip Bucket and put into the air tight container in which the treatment was originally shipped. (A clean standard funnel may be used to make pouring easier).

1. Dispose of used treatment according to *Disposal Instructions* below.
2. Wash the Dip Bucket with soap and water.
3. Ensure the bucket is free of dirt, debris and has no discoloration.
4. Once the bucket has been completely dried, it is ready for reuse.

**NOTE: The e9 Field Kit bucket and lid are made of a special material that will not react with the e9 Metal Treatment. The lid has an airtight seal to prevent evaporation of stored treatment. ONLY USE THIS BUCKET AND LID with e9 Metal Treatments. DO NOT CONTAMINATE OR USE THIS BUCKET AND LID FOR ANY OTHER PURPOSE when it is not being used for treatment.**

**Disposal Instructions:** Send used, expired, or unwanted e9 Metal Treatment to an approved waste facility. All wastes must be handled in accordance with local, state and federal regulations. Do not allow product to reach sewage system or any water course. See SDS for more information.

### **Wipe Application Instructions:**

1. Be sure to wear gloves, as well as safety glasses with side shields before continuing.
2. Clean the metal surface to be treated with e9 Heavy Duty Cleaner (follow dilution instructions) and water to remove any oil, dust, or dirt residue. Rinse with water and dry with a clean, lint-free microfiber cloth.
3. Dab the treatment on a clean and dry microfiber cloth from the treatment bottle.
4. Working quickly in 1 sq. ft. sections, wipe the surface until completely covered with treatment.  
Note: The treatment will dry rapidly.
5. Repeat steps 3-4 until the entire surface is treated.
6. The e9 treated surface is now hydrophobic and oleophobic. You may confirm this using the Dyne pen provided.
7. Repeat Steps 1 – 7 for each part to be treated.
8. When finished treating parts, tightly close the e9 treatment container to prevent evaporation of the treatment.
9. Store the treatment indoors in a dry, room temperature environment.

### **Flush Application Instructions:**

1. Be sure to wear the gloves, as well as safety glasses with side shields before continuing.
2. Clean the metal surface to be treated with e9 Heavy Duty Cleaner (follow dilution instructions) to remove any oil, dust, or dirt residue. Rinse with water and dry with compressed air or alternately, rinse with Isopropyl alcohol and allow to dry before proceeding.
3. Close and seal all open ends (but one) of the part to ensure there will be no leaks when the part is filled with the treatment. Appropriate sealing methods include a metal valve or natural rubber stopper that fits your part opening.
4. Pour e9 Metal Treatment into the part from the open end, filling the part until all surfaces to be treated are wetted and the part is completely filled with liquid. A clean funnel may be used to make pouring easier.
5. Allow the treatment to remain in contact with the internal surfaces for a minimum of 60 seconds (2 minutes of treatment timed is preferred). Optionally, the open end can be sealed as well to avoid accidental spillage while treating.
6. Shake the part gently to remove or dislodge any air bubbles and to ensure the treatment wets all the internal parts.
7. Transfer the treatment from the part into the air tight container provided (a clean funnel may be used to make pouring easier). Tightly close the container with the cap provided to prevent evaporation.
8. The e9 treated surface is now hydrophobic and oleophobic. You may confirm this using the Dyne pen provided.
9. Store the treatment indoors in a dry, room temperature environment.