



Technologies

TECHNICAL INFORMATION ALODINE 1132 TOUCH-N-PREP[®] COATINGS

1. **CLEANING**

Begin the process with a clean, water break free, dry surface. If the water rinse or treatment beads up on the surface, it has not been properly cleaned or it was re-contaminated. **Avoid finger marks!** Clean latex gloves are highly effective at preventing finger oil and lint contamination during cleaning.

A preferred method of surface cleaning is the use of a wet Scotch Brite[®] Pad to abrade the surface. Abrasion of the surface in two directions at 90 degrees is recommended. After cleaning, rinse with water if appropriate and dry the surface with a clean cloth. If cleaning with a dry abrasive pad is required, a wipe with a clean damp cloth is recommended to help remove residues. Wipe until no dark residue is picked up from the surface. A surface clean of residue (smut, abrasive fines etc.) will help keep the felt tip from becoming fouled.

2. **COATING WEIGHTS AND COVERAGE**

This product is approved for Class 1A coatings in a wide range of coating weights. **Heavy coating weights should be avoided for Class 3.**

MIL-DTL-81706A describes a strip-and-weigh coating weight determination method. The following table offers some guidance in obtaining the proper coating weight range and estimates expected coverage area per pen (with a second coat applied over the first dry coat).

3. **LIGHT COATING WEIGHT**

Class 1A and 3. Felt tip damp. Wet film appearance similar to a common felt-tipped type marker. Expected coating weight range is 140 – 200 mg/m². Dried appearance nearly colourless. Expected coverage per pen ~5 m².

4. **MODERATE COATING WEIGHT**

Class 1A and 3. Felt tip moderately wet. Wet film appearance is heavy, but would not sag if held at a 90 degree angle. Expected coating weight range is 195 – 235 mg/m². Expected coverage per pen ~3.3 m².

5. HEAVY COATING WEIGHT

Class 1A ONLY. Felt tip very wet. Wet film appearance is very heavy and would sag and possibly drip if held at a 90 degree angle. Expected coating weight range is 235 – 375mg/m². Expected coverage per pen ~2.3 m². If the coating puddles or tends to run, an excessive coating weight may be obtained. Be especially aware of depressions on the surface where excessive treatment solution could collect.

For economy and quality, the operator should be trained to keep the tip fairly moist- but not saturated with the treatment solution.

Proper Application and Use Procedure of **ALODINE 1132 TOUCH-N-PREP PEN** per MIL-DTL-81706, Class 1A and Class 3, Form VI, Method D for Aluminium and Aluminium Alloys Only.

6. CLEANING AND DEOXIDIZING**STEP 1:**

Pre-clean the surface. If a solvent is used, do not allow the solvent to dry on the surface, but remove the solvent and dry the surface with a clean lint free cloth.

STEP 2:

Wet a Scotch-Brite or other similar abrasive pad materials with water and scrub the metal surface to remove oxides and expose a fresh metal surface. Abrasion of the surface in two directions is recommended. Rinse with water while cleaning (if possible) and then look for a water break free surface. If there is a water break, then continue scrubbing until a water break free surface is obtained and rinse again.

STEP 3:

After rinsing, wipe the surface with a fresh, clean dry cloth. Allow the metal surface to dry before the coating application.

Note:

Wet cleaning is highly recommended. If water wet abrasive is not allowed due to sensitive components in the vicinity of the area to be treated, dry abrasive followed by a wipe with a clean water-damp wiper is recommended to remove cleaning residues. Wipe until no dark residue is picked up from the surface. A surface clean of residue (smut, etc.) will help keep the felt tip from becoming fouled.

7. TREATING THE SURFACE WITH TOUCH-N-PREP® ALODINE® 1132**STEP 1:**

Remove the cap. To activate, hold unit with applicator tip down on the surface to be treated. Press the pen tip down on the surface. This will open the spring valve allowing **ALODINE 1132** to reach and wet the applicator tip. A new unit should charge in 15-30 seconds. When the **ALODINE 1132** just wets the tip, release the downward pressure. The unit is now ready to use.

Note:

The operator must insure the tip does not become overly saturated with treatment solution, especially when creating a coating for Class 3 applications.

STEP 2:

Apply **TOUCH-N-PREP ALODINE 1132** to the metal surface with firm, smooth, even strokes. Be sure to cover all edges. Overlap each stroke 50% to insure full coverage. **DO NOT PUDDLE! DO NOT RINSE! DO NOT WIPE!**

Note:

Solution breaks (de-wetting) must not be observed. A void in the wet film indicates inadequate cleaning. If needed, repeat the cleaning. Firm strokes during application helps avoid de-wetting.

STEP 3:

A second coat is required at a 90-degree angle to the first coat for all MIL-DTL-81706A compliant applications (Class 1A and Class 3). Apply the second coat within 5 minutes after the first coat dries due to the fact that the treated surface becomes more hydrophobic as it ages. **DO NOT PUDDLE! DO NOT RINSE! DO NOT WIPE!**

Note:

As long as the Touch-N-Prep pen wets the surface, an adequate coating will form (at least 105mg/m² for a double coat). The dried coating deposited will range from nearly colourless to a moderately dark brown colour.

STEP 4:

ALODINE 1132 can be allowed to air dry. Using warm air or a radiant source such as a heat lamp is allowed (maximum recommended temperature is 60°C. A consumer hair dryer is ideal and will avoid overheating the surface. Do not disturb the wet film during drying; such as by excessive airflow or contact with the treated surface.

Note:

An uneven appearance in the dry film is normal. Pre-warming the surface will give a significantly smoother appearance, and is recommended especially when the ambient temperature is less than 10°C.

STEP 5:

To recharge applicator tip, repeat the activation process. Frequent short “jabs” during use are preferred to maintain constant coating weights and avoid over-wetting the felt tip.

STEP 6:

Always replace the cap when not in use to avoid evaporation and contamination.

STEP 7:

When **ALODINE 1132** dries thoroughly, primers or other coatings may be applied. The painted **ALODINE 1132** coating must be allowed to air dry for 14 days per MIL-DTL-81706A before being tested for wet paint adhesion (wet tape).

Note:

(1) For general purposes meaning non-military specification applications, **ALODINE 1132** may be used on ferrous metals and galvanized surfaces. (2) A new applicator tip can be cut to conform to any shape with a single edge razor blade.

Use caution. Contains chromate. Protect from freezing. DO NOT tamper with packaging.

DO NOT try to refill.

DISCLAIMER

Any information given is, to the best of our knowledge, the best currently available, with respect to our products and their use, but it is subject to revision as additional knowledge and experience is gained. Such information is offered as a guideline for experimentation only and is not to be construed as a representation that the material is suitable for any particular purpose or use. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use. This information is not a license to operate under nor is it intended to suggest infringement of any patent. We guarantee a uniform quality standard for this product. The only conditions and warranties accepted by Henkel in relation to this product or process are those implied by either Commonwealth or State statutes.