

ENPLATE STOP-OFF NO. 1

Stop-off maskant for electroless nickel plating

Product Code: 202974

DESCRIPTION

ENPLATE[®] STOP-OFF NO. 1 is a liquid chemical maskant used as a stop-off for electroless nickel plating on steel, aluminum, copper and copper alloys. ENPLATE STOP-OFF NO. 1 is fast drying (usually an hour at room temperature) and is resistant to all MacDermid Enthone chemical processes normally required to plate electroless nickel over these substrates.

ENPLATE STOP-OFF NO. 1 has long storage life and will not settle or separate during storage. It is tinted green for better scribe line visibility and has the ability to release entrapped air thereby virtually eliminating pinholing. ENPLATE STOP-OFF NO. 1 is completely resistant to hot solutions up to 200°F (93°C.). The cured film is tack-free and will not adhere to itself or other parts, tank walls, etc. It is easily cut with a sharp knife.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

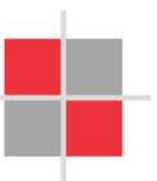
OPERATING PARAMETERS

Concentration	85 to 100%
Temperature	Room temperature
Time	60 minutes

ENPLATE STOP-OFF NO. 1 is normally used full strength; it can also be diluted, up to approximately 15%, with toluene or xylene for a smoother coating. If thinning is desired, use thinner sparingly.

Although ENPLATE STOP-OFF NO. 1 is usually applied by immersion of the parts in the solution, any conventional method of application such as brushing, or flowing may be used. The parts should be dry and clean before being treated; then the parts are simply exposed to ENPLATE STOP-OFF NO. 1 until they are thoroughly coated. For dip or flow coating, two dips or two flow coats in the full-strength viscosity will apply a dry film thickness of 8 to 9 mils.

NOTE: If applying ENPLATE STOP-OFF NO. 1 by spraying, it is recommended to dilute the product by adding 10% toluene to thin it to avoid clogging of spray nozzles. For spray applications, using proper equipment, a dry film coating can be applied with two single passes and one box coat (one horizontal pass and one vertical pass).



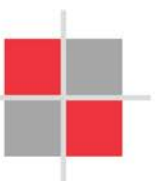


As a stop-off for electroless nickel plating, the coating should be allowed to dry at room temperature for 60 minutes. ENPLATE STOP-OFF NO. 1 will dry to a tack free condition in 15 minutes, at which time subsequent coats may be applied if a heavier build-up is desired. The coating can be scribed after four hours. ENPLATE STOP-OFF NO. 1 can be removed from outward surfaces by peeling and from recesses using methyl-ethyl-ketone.

EQUIPMENT

ENPLATE STOP-OFF NO. 1 may be contained in steel, stainless steel, or ceramicware containers. Because the flash point is well below room temperature, a tank approved for flammable liquids with a cover equipped with a fusible link is required.

The tank should be covered except during loading and unloading of work to minimize evaporation losses and chances of fire. Exhaust ventilation is recommended. Consult the American Conference of Industrial Hygienists' book entitled, "Industrial Ventilation, A Manual of Recommended Practice."



SAFETY & WARNING

MacDermid Enthone recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

Safety Data Sheets are available from MacDermid Enthone.

WASTE TREATMENT

Prior to using any recommendations or suggestions by MacDermid Enthone for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

ORDER INFORMATION

Product	Code
ENPLATE STOP-OFF NO. 1	202974

CONTACT INFORMATION

To confirm this is the most recent issue, please contact MacDermid Enthone
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE. Emergency directory assistance: Chemtrec 1 - 800 - 424 - 9300.

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OR MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any product defective at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect and consequential damages that may result from use of the products under conditions, and agrees to exonerate, indemnify and hold harmless MacDermid Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in infringement of any patent rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

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