 <p>15 Rue des Frères Lumière – BP 136 78374 PLAISIR FRANCE</p> <p>Pho : +33(0)1.30.80.81.98 Fax : +33(0)1.30.80.81.99 WEB : www.babbco.fr E-MAIL : sherwinbabbco@orange.fr</p>	<p><b>TECHNICAL DATA SHEET</b></p>	<p>Ref : <b>TDS/HM-704</b></p> <p>Page : 1/2</p> <p>Rev : 2 Date : 11/09</p>
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## FLUORESCENT PENETRANT HM-704



**MANUFACTURER:** SHERWIN (USA)/NDT-EUROPA (NL)

**DESCRIPTION / APPLICATION(S):**

Water-Washable FLUORESCENT PENETRANT, Type I method A level 4 according AMS 2644, designed for detecting surface defects.  
Biodegradable penetrant, odorless and vapor-free

**.Companion product(s):** Developers D 90G, D 100, R 60, R 62.

**SPECIFICATION(S) / STANDARD(S):**


- Conform to Code : ASME  
standards: ISO 3452-2
- Specifications: EADS/AEROSPATIALE IGC 04.25.101  
ROLLS ROYCE: RPS 702 –F1B, TSD 594-op 213 standard 1A3  
GENERAL ELECTRIC, BOEING, LOCKHEED: in accordance with QPL  
DASSAULT: IQ1-0.1.20 A
- Approved **SAE - AMS 2644 - QPL**

**PHYSICO-CHEMICAL PROPERTIES:**

- Aspect: green liquid
- Fluorescence: green-yellow
- Flash point: > 93° C (200°F).
- Very low halogen and sulfur content
- Compatible with all metals and certain plastics.

**PACKAGING / SHIPPING / STORAGE:**

- . Packaging:** 1L, 5L, 10L, 25L canisters.  
60-liter barrel.  
200-liter barrels

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**. Shipping / Handling: refer to MSDS**

- . Storage / Shelflife :** Keep away from moisture  
Temperature limit : 0 to 50°C. (23 to 130°F.)  
Keep packaging closed after taking out some of the product  
Shelflife : 48 months.

**INSTRUCTIONS** : (These describe the basic process, but they may need to be amended by the user to comply with applicable specifications and/or inspection criteria provided by the contracting agency).

**1. Application** : Apply HM-704 only to clean, dry surfaces by spraying, flowing, brushing or dipping.

**2. Dwell-Time** : A 10 minute dwell time is suggested, although in many cases five minutes will suffice. When particularly tight cracks are suspected, or the part is especially critical, the dwell time may be extended to 30 minutes, or longer.

**Do not soak the part.** To increase sensitivity, as well as conserve material, allow the penetrant to drain from the part surface back into the penetrant tank.

**3. Removal** : Use a quick, ambient temperature water wash at tap pressure to rinse HM-604 from the part surface. To avoid washing entrapped penetrant from surface flaws, do not use high water pressures and temperatures, or prolonged washing and scrubbing.

**4. Drying** : A recirculating oven set no higher than 160°F (71°C) is suggested. Leave part in oven just long enough to evaporate surface moisture. Drying is improved by using pressurized air to disperse and remove as much excess water as possible before placing part in oven.

**5. Developing** : HM-704 is self developing. Nevertheless it is recommended to use a developer as listed above.

**6. Inspection** : Inspect parts under appropriate UV-A radiation and dimmed visible light, in accordance with ISO 3059 standard.

**HEALTH AND SAFETY:** refer to MSDS

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