TECHNICAL INFORMATION BULLETIN

KODAK GBX Developer and Replenisher

Mixing Instructions

Updated March 15, 2002

Important Information Before You Begin

- Observe the precautionary information on the containers.
- Use ventilation with enough air circulation or exhaust to keep the mixing area free from strong odors (change 10 room-volumes of air per hour).
- Wear rubber gloves, eye protection (visor goggles or face shield), and a chemically impervious apron when mixing chemicals.
- To avoid release of irritating vapor(s), always follow mixing instructions.
- Always measure and record the quantity of developer and replenisher solution in the replenisher tank before mixing.

Storage Conditions

Important: Store at 40°-80°F (4.5°-26.5°C). This solution is highly concentrated. If stored in a cold area, crystals may be deposited. If this happens, the crystals should be dissolved by warming and agitating the solution before it is diluted for use. Crystals formed by cold-temperature storage and dissolved by warming do not cause adverse photographic effects.

Mixing Instructions

<table>
<thead>
<tr>
<th>To Make</th>
<th>Step 1</th>
<th>Step 2</th>
<th>Step 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Add Water</td>
<td>While Stirring Continue Stirring</td>
</tr>
<tr>
<td></td>
<td></td>
<td>65°-85°F</td>
<td>Continuously, Slowly Add Concentrate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(18°-29°C)</td>
<td></td>
</tr>
<tr>
<td>5 Gallons</td>
<td>4 gallons</td>
<td>Contents of one (1) bottle</td>
<td>2 additional minutes</td>
</tr>
<tr>
<td>(19 Litres)</td>
<td>(15 litres)</td>
<td>Content of one (1) bottle</td>
<td></td>
</tr>
<tr>
<td>2.5 Gallons</td>
<td>2 gallons</td>
<td>64 fl. oz. (1.9 litres)</td>
<td>1 3/4 additional minutes</td>
</tr>
<tr>
<td>(9.5 Litres)</td>
<td>(7.5 litres)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Gallon</td>
<td>102 fl. oz.</td>
<td>25.6 fl. oz. (.76 litres)</td>
<td>1 1/2 additional minutes</td>
</tr>
<tr>
<td>(3.8 Litres)*</td>
<td>(3 litres)</td>
<td></td>
<td></td>
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</tbody>
</table>

* The dilution for the 1 gallon concentrate is slightly different than the 5 gallon concentrate. Refer to the mixing instructions on the concentrate label.
Replenishment

- Add the developer replenisher solution to the developer tank at the rate of 2 fl. oz. (60 mL) per 35 x 43 cm (14 x 17 in.) film processed. (Note: The developer tank solution is the same as the developer replenisher solution.)
- Fill the developer tank to its original level each morning with developer replenisher solution.
- Store the developer replenisher solution in a closed container to reduce oxidation and evaporation.
- Mix quantities of developer and replenisher in convenient sizes and store in a closed container. Do not mix more than one month’s usage of replenisher solution. (Example: 2 gallons (7.6 litres) of developer replenisher solution will be sufficient for replenishment and topping off the developer tank if processing 8 to 12 films per day (35 x 43 cm / 14 x 17 in.), 5 days per week).
- When 15 gallons (57 litres) of developer replenisher solution have been added to 5 gallons (19 litres) of original developer solution, empty the tank and refill it with freshly made developer replenisher solution. Replace developer every 3 months (minimum).

**Note:** Increase chemical savings and ensure good process chemical stability by using floating covers on the developer tank and closed, airtight containers to store replenisher solutions.

Additional Information

**MSDS**

Material Safety Data Sheets are available online via the [MSDS Search Page](#).

**Storage and Handling**

[Click Here](#) for Storage and Handling Conditions for KODAK Medical Processing Chemicals.

**Note:** Technical Information Bulletins provide information of limited or specific application. Responsibility for judging the applicability of the information for a specific use rests with the end user.

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