

# Black and White Film: Processing Guide

1. **LOAD FILM:** Bring your tank, scissors, and a bottle opener into the film loading room. **LOCK YOUR DOOR.** Load film on the reels in complete darkness. Cut off the tape at the end of the film. Double check to make sure your funnel and lid lock and seal properly.

2. **DEVELOPING AREA PREPARATION:** Clean two graduated cylinders. In one, run water from the sink until it reaches 68 degrees. Set it aside. In the second, use a premixed 68 degree solution of (Sprint) Developer and water. For all liquids use the following quantities for 35mm film: **Plastic 2 reel tank:** 22 oz. / **Metal 2 reel tank:** 16 oz.

3. **WATER:** Pre-wash your film with 68 degree water.  
**Time:** 45sec    **Agitation:** Continuous  
**Drain:** during the last 10 seconds. Pour down the drain.

4. **DEVELOPER:** Sprint Solution (1:9). Use pre-mixed solution.  
**Time:** see chart.    **Agitation:** Continuous for first minute, 10 seconds every minute thereafter.  
**Drain:** during the last 10 seconds. Pour down the drain.

HP5 & TRI-X 400 with SPRINT Developer (1:9) / Development Time in Minutes							
Shot As	Push/Pull	64.5°F	66°F	68°F	70°F	71.5°F	73.5°F
ISO 100	pull -2	9 ¼	8 ¼	7 ½	6 ¾	6	5 ½
ISO 200	pull -1	10 ½	9 ½	8 ½	7 ¾	7	6 ¼
ISO 400	std. development	12 ½	11	10	9	8	7 ¼
ISO 800	push +1	14	13	11 ½	10 ¼	9 ¼	8 ½

5. **STOP BATH:** use pre-mixed chemicals.  
**Time:** 1 minute    **Agitation:** Continuous for the entire time.  
**Drain:** during the last 10 seconds. **RECYCLE STOP BATH.**

6. **FIXER:** use pre-mixed chemicals.  
**Time:** 5 minutes    **Agitation:** Continuous for the first 30 sec, 5 seconds every 30 seconds thereafter.  
**Drain:** during the last 10 seconds. **RECYCLE FIXER.**

7. **WATER WASH:** 68 degree water: use pre-mixed chemicals  
**Time:** 1 minute    **Agitation:** Continuous for the entire time.  
**Drain:** during the last 10 seconds. Pour down the drain.

8. **FIXER REMOVER (a.k.a. Hypo Clear):** Use pre-mixed chemicals.  
**Time:** 2 minute    **Agitation:** Continuous for the entire time.  
**Drain:** during the last 10 seconds. **RECYCLE FIXER REMOVER.**

9. **FINAL WATER WASH:** Open Canister and place reels in continuous wash cylinder with 68 degree water.  
**Time:** 10 minutes

10. **PHOTOFLO:** Dunk reels in photoflo tank  
**Time:** 1 minute    **Agitation:** Continuous very light submerged dunking.

11. **DRYING FILM:** Take your film off the reel without touching it. Hang film to dry in drying cabinets.

Additional Developing Times Available for Sprint Developer:

<https://www.sprintsystems.com/time-charts>

Ilford DELTA 400 with SPRINT Developer (1:9) / Development Time in Minutes							
Shot As	Push/Pull	64.5°F	66°F	68°F	70°F	71.5°F	73.5°F
ISO 100	pull -2	12 ½	11	10	9	8	7 ¼
ISO 200	pull -1	14	13	11 ½	10 ¼	9 ¼	8 ½
ISO 400	std. development	14	13	11 ½	10 ¼	9 ¼	8 ½
ISO 800	push +1	18 ½	17	15	13 ½	12 ½	11