

Processing Chemicals - Brownish-Black Developer

| Problem: | Recommendation: |
|--|--|
| <ul style="list-style-type: none">The developer (processor and/or replenisher) has oxidised because of being left too long or because of incorrect replenishment. The antioxidant is exhausted and this has led to discoloration of the developer. | <ul style="list-style-type: none">use floating spheres or floating cover in the replenisheruse mixed replenisher within 5 to 7 days |

Action:

- drain and prepare new batch

Processing Chemicals - Developer Smells of Ammonia

| Problem: | Recommendation: |
|--|---|
| <ul style="list-style-type: none">developer has been contaminated with fixing bath e.g. in the case of film transportation faultsfixer overflow blockedfixing rack being lowered too quickly (liquid overflowing)replenisher vessels accidentally filled with the wrong liquidsfixing bath splashing when the processor was filled | <ul style="list-style-type: none">check the processor and replenisher vessels for cross-contamination |

Action:

- drain off the developer, rinse and mix a new batch
- if necessary clean the tube between processor tank and replenisher vessel as well

Processing Chemicals - Cloudy (Milky) Fixing Bath

| Problem: | Recommendation: |
|--|---|
| <ul style="list-style-type: none">Fixer not correctly prepared e.g. hardener poured directly into concentrate or concentrate not stirred before hardener was added, resulting in sulphur blooming. | <ul style="list-style-type: none">first dilute the concentrate with water, then stir before adding hardener |
| <ul style="list-style-type: none">fixing concentrate past its use-by date | <ul style="list-style-type: none">check the use-by date |

- ready prepared fixing bath has been left too long (antioxidant exhausted)

- use the fixing bath within the appropriate time

- fixing temperature in the processor is too high

- check the fixing bath temperature

Action:

- drain off fixing bath and clean tank thoroughly
- also clean tube between the processor tank and the replenisher
- **Important - please note:** It is vital that all sulphur residue is removed, otherwise the same problem will occur in the new bath.

Processing Chemicals - Yellow Sediment in Fixing Tank

see [milky fixing bath](#)

Processing Chemicals - Crystals in Concentrate

Problem:

- the concentrates were transported at temperatures below 0°C or stored at too low a temperature

Recommendation:

- the developer and fixing concentrates should not be transported or stored for any prolonged period at temperatures below 5°C

Action:

- place the canisters containing the crystals in water at a temperature of 30-40°C
- after a while the crystals will dissolve again
- shake the canisters if necessary
- **Important - please note!** Do not use any canisters containing crystals to prepare solutions ready for use. This would lead to poor results!

Processing Chemicals - Abrasion of Emulsion in Developer

| Problem: | Recommendation: |
|--|---|
| <ul style="list-style-type: none">• developer is exhausted | <ul style="list-style-type: none">• prepare a new batch |
| <ul style="list-style-type: none">• replenishment rate is too low | <ul style="list-style-type: none">• increase the replenishment rate |
| <ul style="list-style-type: none">• hardener solution was omitted when the batch was mixed | <ul style="list-style-type: none">• add hardener |
| <ul style="list-style-type: none">• wrong film emulsion | <ul style="list-style-type: none">• replace the film |
| <ul style="list-style-type: none">• 1-part developer (hardener-free) is used | <ul style="list-style-type: none">• only use films that are suitable for hardener-free developers |

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