

ClearPhase™ RA-4 Developer

A Magical One-Part RA-4 Developer



ClearPhase RA Developer & Super LR Developer Replenisher

ClearPhase advantages

- **Eliminates Mixing Errors**
- **Mixes extremely well with water due to homogeneous solution**
- **Creates no airborne particles**
- **Drastically reduces packaging waste**
- **Lower Shipping cost**
- **Standard Odourfresh Formula**
- **Increased Shelf Life compared to conventional RA-4 developers**
- **Simplified inventory control**

ClearPhase RA Developer replenisher is a **one-part concentrate** formulated for use in the RA-4 process. This standard rate formula provides an extremely clean-running process that resists oxidation and delivers superior consistency mix after mix. ClearPhase RA Developer works in any standard RA-4 processor. ClearPhase RA Developer does not require any special bleach-fix or stabilizer, it is designed to work with any existing bleach-fix and stabilizer. **ClearPhase can go on-top of any existing RA-4 developer or RA LR Developer(*)**.

Catalog Number	Mix Size	Shipping Weight
30DE3179	12 x 5 L (160 ml/m ²)	6.58 kg
30DE3180	6 x 10 L (160 ml/m ²)	7.81 kg
30DE3149	6 x 5 L (70 ml/m ²)	7.27 kg

(*) Replenishment rates are starting points. Actual replenishment rates will be affected by type of machine, utilization and types of material processed.

Specifications :

- Time : 0'43" – 0'48"
- Temperature : 35°C
- Replenishment rate** : 70 ml/m² or 160 ml/m² (ClearPhase Super LR or Standard ClearPhase)

Advantages of ClearPhase Developer

There are many advantages of the ClearPhase "one-part" developer formulation. Some of these include:

- **A reduction in packaging components** such as caps, bottles, and bottle labels. This reduces the solid waste loading to landfills.
- **Shelf life of the color developing agent is increased.** Through accelerated aging tests, it has been predicted that the keeping properties of the color developing agent may be increased even over traditional, multipart products
- **Mix errors by the end user are reduced.** There will be no more replenisher solutions made with a missing part from the kit or the wrong number of parts, e.g. an extra part B or a part inadvertently left out of the mixture.
- **Inventory of components cannot be unbalanced** due to damaged goods, misplacement of components, or losses due to mixing errors.
- **The ClearPhase solution is less hazardous to ship.** The combined mixture, at around pH 10.50 is much less hazardous than the traditional Part C of a developer mix. Part C typically includes potassium carbonate and potassium hydroxide. This solution is typically pH 13.0 or greater, which is considered a hazardous product to ship.
- **Mixing errors due to sequence mistakes will be eliminated.** In a conventional color developer, the part A typically contains an antioxidant for the mixture. This is introduced to the water before the color developing agent, which is contained in the part B. Inadvertently introducing a part B directly into water, without first being mixed with antioxidant, will readily oxidize, rendering the color developer mixture useless. The ClearPhase solution eliminates this error of mix procedure.

(*) Replenishment rates are starting points. Actual replenishment rates will be affected by type of machine, utilization and types of material processed.