



Kerex™ AccuRelease – Product Profile

Kerex AccuRelease is a film type mould release material that has been engineered for use in the Fibreglass Reinforced Plastics (FRP) and Composites industry.

AccuRelease is easy to use on moulds and forms a strong film barrier between the mould and the FRP part.

DIRECTIONS FOR USE

AccuRelease is a liquid viscous fluid. It can be easily applied to any type of mould surface – gel coat, wood, plaster, metal, and glass.

The simplest applicator is a high density flexible foam slab or piece. The foam slab is dipped into AccuRelease and then applied onto the mould surface using clean straight strokes. Avoid circular strokes. If AccuRelease collects in parts of the mould, soak up the excess using the foam. Visually inspect to ensure that the AccuRelease has covered all parts of the mould and that the film is uniform. If you see dry spots touch it up.

AccuRelease may also be applied by a pressure spray system. The spray system has to be carefully selected so that a uniform film is formed on the mould surface. Care should be taken to avoid overspray, insufficient spray and pinholes.

After application of AccuRelease on the mould surface, the film must be allowed to completely dry. One can test for dryness by touching the film, which must not feel sticky to the touch.

Drying time will depend on the thickness of the applied film, relative humidity in the room, the ambient temperature, and air flow around the mould. The drying time is typically between 30 to 60 minutes. Low humidity, warm temperatures and good air circulation will speed up the drying time. Forced air circulation using a fan/blower is a simple way to enhance drying time. If the humidity is high, using a dehumidifier in the vicinity of the mould also speeds up drying time.

Once the film has dried, the gel coat can be applied to the mould surface using standard manufacturing techniques, such as hand lay-up or spray lay-up.

After the FRP part has cured, it can be released from the mould by lifting it, starting from the edges. For complex and heavy parts, a jet of air injected between the part and the mould can help in freeing it.

MULTIPLE RELEASES – GUIDELINES

Multiple releases can be obtained from a single AccuRelease film, depending on the geometry of the mould and integrity of the film.

After the first part has been released, a quick visual check can be made for any tear or damage to the AccuRelease film. If there are none and the film appears to be in good condition, a second part can be made.

However, if there are defects in the film, then two options exist. If the film damage is localized, the film can be locally fixed by applying AccuRelease using a piece of high density foam.

Note that when you use AccuRelease repeatedly on a mould, without cleaning the old film, film build up can occur. This can change dimensions of the part, due to changes in tolerances.

If the damage to the film is excessive then it is advisable to completely remove the existing film using water, since AccuRelease is water soluble. After removing the old film, a new film can be applied.

If the mold is expensive or if it is a green mould (new), then the best recommendation is to always apply a new AccuRelease film, after cleaning and removing the old film with water.

The cost of applying an AccuRelease film is so low compared to the cost of the mould and this justifies the use of applying a fresh new film each time.

STORAGE & HANDLING

AccuRelease has a very long shelf life when stored in the original packaging. Unused portions should be kept in a closed container to maintain the original consistency. It is a safe product to handle and has no known fire hazards.

AccuRelease BENEFITS

- Quality - consistent and exceptional.
- Cost – low per unit area of film.
- Strong – film will withstand brushing or spraying of gel coat material.
- Barrier - prevents permeation of styrene and solvents, which are present in the gel coat material.
- Color – blue color helps in visual inspection of the applied film.
- Can be used on all types of moulds such as gelcoat, wood, and metal.
- Does not foam when applied and forms a rigid film upon drying.
- Ready to use straight off the package and there is no need for any dilution or guess work.
- Application is easy and quick – there is no need for additional mechanized equipment.
- Capable of multiple releases.
- Film can be easily touched up and rebuilt locally, when multiple releases are needed.
- Film is formed under ambient conditions.
- Safe to use and non-flammable.
- Long shelf life when stored in the original container.
- Film is water soluble and the mould can be quickly cleaned with water.

RECOMMENDATION: Use AccuRelease on a small portion of the mould and test for release prior to production usage.

DISCLAIMER: The information and recommendations contained herein are, to the best of our knowledge, accurate and reliable. No guarantee of their accuracy is made, however, and the products are sold without warranty, express or implied, and upon condition that purchasers shall make their own tests to determine the suitability of such products for their particular purposes and uses.