



PRODUCT DATA

Chemlease® 75

Release Agent

Description

Chemlease® 75 is a unique semi permanent mold release system developed specifically for the marine and cultured marble, Class A applications.

Benefits

- Multiple releases between applications
- Provides excellent gloss
- Easy to apply
- Maintains a fine mold detail
- Eliminates the use of wax
- Does not build up on the mold surface
- Reduces labor time and costs
- Does not transfer to molded part
- Allows use of most standard fine line / masking tapes
- Excellent for use on large parts where pre-release may be a concern

Chemlease® solvent carriers contain no Class I or II registered ozone depleting substances

Note: Molds/parts that exhibit a lot of abrasion during molding or demolding should utilize Chemlease® PMR-90, which offers a higher level of slip.

Mold Preparation

1. Mold surfaces should be thoroughly cleaned to remove all traces of wax release agents sealers and buffing compounds.
2. Do a final cleaning of mold surface with Chemlease® Mold Cleaner.
3. Seal mold with the appropriate Chemlease® Sealer. (See Chemlease® 15 Sealer or Chemlease® 15 Sealer EZ Technical Data Sheet for details.)

Application For Base Coats

1. Mold surface must be thoroughly cleaned to remove all traces of wax, release agents, and other sealers.
2. Surface should be dry and free of contaminants.
3. Saturate clean cotton cloth (not dripping) and wipe on a smooth continuous film. Apply no more than a few square feet at a time.
4. Wait 15-20 seconds. While film is still wet, wipe the surface with a second clean dry cotton cloth using a circular motion from the outside, working inwards until film is left dry and clear.
5. Repeat above procedures until entire mold surface has been covered.
6. Apply 3-5 coats, allowing 15 minutes between each complete coat.
7. Allow 30 minutes for full cure. Proceed with production

Notes: Time will vary with room and mold temperature. Wipe off as the solvent begins to evaporate. If the release agent is left on too long, you may notice some smearing or streaking. To remove smears or streaks, rub the affected area with the recommended Chemlease® release agent, simply remove the excess sooner than you had before.

Test to Ensure Proper Application

Attach a small strip of masking tape to different areas of the mold. There should be very little resistance when removing the tape if proper release is applied. Compare to an untreated mold.

Touch-Up Coats

Once in production the release film will begin to wear. Rather than applying a touch-up coat once the parts begin to stick, it is better to

do preventative maintenance. For example, if trials determine that 20 releases are obtainable between touch-up coats, it is better to re-apply a touch-up coat after every 15 cycles or at the end of every second shift if you are, for example, turning the molds 8 times per shift. The above-described action will keep the molds in production longer and help establish a routine of quality preventative maintenance.

Coating Patch Repairs

Prior to repairing a patch, make sure the release is removed for 3-4 inches around the area to be repaired. Note: Semi permanent releases must be removed with mild abrasion as well as a solvent wipe. If not, the patch will not bond to the surface and break out. Once the patch is cured, treat the area as a new mold:

1. Clean with Chemlease® Mold Cleaner;
 2. Apply the appropriate Chemlease® Sealer and cure per instructions;
 3. Apply 5 coats of Chemlease® 75 release agent and cure.
- Touch-up the patched area with Chemlease® 75 every other cycle for the first 4-6 releases. Remember, the patch is weaker than the rest of the mold and will require extra attention for the first few cycles. Further, a touch-up coat (other than patch repair) should usually be done over the whole mold. This prevents having to retouch another area that is wearing on the next cycle. However, there may be some areas of surface draft, etc. that may require a touch up more frequently. For example:

- Touch up complete mold every 16 cycles,
- Touch up small areas with bad draft every 8 cycles.

Chemlease® 75 is designed to blend into itself very easily and operator experience will quickly determine the number of cycles between spot and complete touch-up. For a spot touch-up, only the 15-minute room temperature cure time is needed. Whenever the mold is stripped, reapply the appropriate Chemlease® Sealer and/or the Chemlease® 75 base coats as described.

Important

The recommended number of coats and cure times are a general guideline found to be more than sufficient in a broad spectrum of molding conditions. When molding products with extreme geometries or experiencing low-humidity conditions in the shop, the customer may find the need to extend the cure time between coats and increase the number of coats applied to the mold. The efficiency of a release film is best determined through a combination of tape tests and experimentation.

Packaging

Chemlease® materials are available in 1, 5, and 55-gallon containers as well as handy aerosols. It is important that the materials be left in the factory containers, as the product is susceptible to moisture contamination if the container is left open or the material is stored in the wrong type of container. The material should always be clear. If cloudiness is detected, the material is contaminated and should be discarded via proper disposal methods.

Safety Data

Material Safety Data Sheets are available for all Chemlease® products and should be consulted prior to use of the product.

While the technical information and suggestions for use contained herein are believed to be accurate and reliable, nothing stated in this bulletin is to be taken as a warranty either expressed or implied.