

Designed for efficiency and safety with reductions and savings in through-life costs

- High-Tech Surface Cleaning Compound
- Non-Explosive
- Slow Evaporating
- Safe to Use, Store and Dispose of
- Improved User Safety & Comfort
- Reduced Disposal Issues

Purasolve Surface Prep is a low vapour pressure solvent that is an environmentally responsible substitute for MEK, 1,1,1 Trichloroethane, blends of toluene and MEK, Toluene acetone and Trichloroethane. It is designed for use in the aerospace industry as a surface preparation degreaser in hand-wipe applications and can be used in a multitude of degreasing applications.

The main applications for Purasolve Surface Prep may require a readjustment in application procedures as follows:



Purasolve Surface Prep vs Traditional Solvents

Purasolve Surface Prep has a lower vapour pressure than MEK, or Toluene. This presents an advantage and a challenge to new players. Anyone who is used to using MEK, MEK Toluene, or 1,1,1 Trichloroethane is accustomed to something with a vapour pressure close to 40 times more than Purasolve Surface Prep.

This would mean that they are familiar with a process in which consistent soaking of the applicator rag is necessary to keep the rag wet, so that the material can be applied to the surface being degreased. Under these circumstances, between 60% and 75% of the solvent applied to a surface evaporates from the rag before it has an opportunity to make contact with the grease it is hoping to remove.

When using a low vapour pressure solvent, such as Purasolve Surface Prep it must be re-learned that the rag/cloth does not need to be soaked with the solvent to the point of being dripping wet and the rag does not need to be soaked repeatedly.

A small amount of Purasolve Surface Prep (typically half of what is used) will go 20-30 times further. A part should not be soaked dripping wet with the Purasolve Surface Prep or any other low volatility solvent.

If this is done by trial and error, you will notice that a significantly lower amount of solvent is used compared to the MEK, MEK Toluene or 1,1,1 Trichloroethane. The "end result" is important to remember when using any alternative solvent - i.e. a cleaned part is a part without any residue and that it is totally dry.

To achieve this using the lower volatility solvent, it is often necessary to adjust how the material is applied. (1) How many swipes of the rag are used. (2) How wet the rag is. (3) Whether a dry rag is used to follow up or shop air or a longer air dry time.

In comparison, if a part is clean and dry and within spec for application of sealant, paint, or any other coating that is being accomplished, we recommend the following procedure for determining optimum usage of Purasolve Surface Prep.

Application Instructions

- Begin by using a scrap part. Apply the typical amount of grease or contaminants to the part that you would be using with your MEK, MEK Toluene, MEK Acetone or Acetone Trichloroethane blend.
- Next apply the minimum amount of Purasolve Surface Prep to your wiping rag (enough to moisten the rag) but not have it soaking, dripping wet. Begin at one end of the part, cleaning in the usual manner.
- Fold the rag over to expose more of the dampened surface reapplying the minimum amount of Purasolve Surface Prep. If you need a quickly dried surface use either an air blast or dry rag wipe-off following the Purasolve Surface Prep. It will evaporate clean, but it will evaporate much slower than what you are accustomed to with your MEK.



Follow this procedure until the entire part is clean and dry. Within a short period of time, you will have readjusted your process to accommodate the slower evaporation rate of the purasolve Surface Prep. You will notice you are using considerably less Purasolve Surface Prep than you would have been using one of the other more hazardous solvents.

Purasolve Surface Prep has such a low vapour pressure, you will notice it is not necessary to use respirator equipment. We recommend using glasses when applying Purasolve Surface Prep, and using gloves, preferably, of a nitrile or other solvent proof nature. While purasolve Surface Prep is nowhere near as flammable as MEK, Acetone or Toluene, Purasolve Surface Prep is considered a combustible material.

We recommend that it be stored away from open flame and that employees not smoke when using the Purasolve Surface Prep (particularly in enclosed areas).

Purasolve Surface Prep is effective in removing most hydrocarbon greases, adhesives, and many oil-based inks (marking grease pencils etc.). Purasolve Surface Prep will not remove paint or dye-chem dye, or other highly polar contaminants such as sealants and silicones. It is critical that the application and cleaning process is reviewed for success with using Purasolve Surface Prep or any other alternative solvent.

It is a rule of chemical nature that the faster that something evaporates the more hazardous it is. Anything that is less hazardous will evaporate slower and that must be accommodated for.