

# **BLT Solder Mask Check Wipes**

## **Technical Data Sheet**

### **Description:**

**BLT Soldermask Check Wipes** have been formulated to provide a quick and easy qualitative test to check for under cured soldermask on printed circuit boards and assemblies. The wipes are made from a unique solution and used for initial testing of under cured Solder Resist and Legend/Silk Screen redeposition onto the PCB surface

### **Problems you may be experiencing**

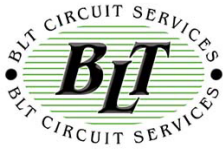
- Solder Balling.
- Solder Bridging/Shorts.
- Dewetting especially on SMT Pads.
- Unsightly Waxy/ Greasy Residues on Wave Soldering.
- Poor SIR/ Electromigration Problems.
- High Levels of Spongy Dross build up in the Wave Solder Machine.
- Cleaning issues- White powder formulation after cleaning which can't be removed easily or a build up of sticky residue inside your cleaning machine.
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Once a soldermask has been applied by the PCB manufacturer it is given a final thermal (or U.V) cure to complete the Cross Linking process and therefore make the resist fully resistant to the subsequent soldering processes and Chemistries used during assembly.

If, however, there has been a problem in the process such as insufficient cure time or temperature or insufficient hardener, this can be detected using a solvent rub test, whereby some of the mask coloration will simply transfer on to the wipe. Therefore there is an obvious weakness in the solder resist and will remain Porous, this could give rise to numerous soldering problems in assembly and interfere with final testing.

### **Application:**

1. Remove a Solder Mask Check Wipe from package and re-seal (to prevent solvents from drying out).



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2. Using preferably an un-populated board or if need be an assembled PCB take hold of the wipe and rub with moderate pressure (ideally using a forefinger) for approximately 10 seconds at a time in different areas of the board.

If the soldermask is significantly under-cured, there will be clear evidence of a transfer of the coloration of the resist on to the wipe. (see below an example).



**If it appears there is a problem with the soldermask, we would advise you to contact your PCB supplier who would appreciate the feedback, and no doubt would be happy to rectify the situation ASAP.**

### **Health and Safety**

As always when using solvents, protect hands using suitable gloves as outlined on the Material Safety Data Sheet.

In case of contact with skin and eyes wash with water and obtain medical assistance.

### **Packaging**

Sheets of white lint-free material pre-soaked in a proprietary blend of solvents, contained in a re-sealable plastic package.

100 sheets contained in each re-sealable pack.

### **Warranty**

All reasonable endeavors have been made to ensure that the information contained in this data sheet is accurate, but it is submitted on the express condition that BLT Circuit Services Ltd shall not be under any liability of whatsoever nature, arising, suffered or incurred as a consequence of its use.