

KIWOBOND UV 3000

1. DESCRIPTION

KIWOBOND UV 3000 is a UV-reactive, one-component adhesive for a chemically and physically highly resistant bonding of screen meshes to frames made of aluminum, steel and galvanized iron. The bonding is resistant to all common screen printing inks and cleaning agents.

2. PROPERTIES

KIWOBOND UV 3000 is a very fast curing UV-reactive adhesive, which is sensitive in the UV-wave length of 320-360 nm. It is odorless, easily applicable and has a very good solvent resistance after curing with the exception of chlorinated hydrocarbons. The adhesion to the normally used screen frame materials is good. KIWOBOND UV 3000 can be used for all mesh types. Used or destroyed mesh can easily be removed from the frame.

3. APPLICATION

Before applying KIWOBOND UV 3000, thoroughly remove old adhesive residue from the frame. New aluminum frames can chemically be roughened with PREGAN PASTE (see separate TECHNICAL INFORMATION). Do not clean again with solvents between treatment with PREGAN PASTE and bonding. It is important to keep time between roughening and bonding as short as possible in order to obtain all reliable adhesion. Best adhesion can be achieved on sand blasted aluminium frames.

In some cases the adhesion to metal frames may still be difficult if silicone based separating agents have penetrated into the frame surface. In this case, singe with a soot-free flame.

KIWOBOND UV 3000 can be applied as follows:

- 1. Brush-through method:** Apply the adhesive with a hard brush or an automatic device onto the frame.
- 2. Pre-brush method:** Apply the adhesive with a dispenser on to the frame. This method is mostly used for aluminum die casting frames in the thick film technology. In special stretching units several frames are then pressed into the mesh.

Curing is achieved by UV-light within a very short time. Exposure time depends on the type of UV-light, the distance to the bonding area and the thickness of the adhesive film (depending on the mesh count). Especially short exposure times (approx. 15 –20 sec.) can be achieved using our ULTRA FLASH CURING system. In order to obtain a smooth surface the adhesive film can be covered with a clear polyester film before exposure.

KIWOBOND UV 3000 is light sensitive. Therefore, ensure that original containers are opened for a short time only when taking material out.

4. CLEANING

Uncured: KIWO REDUCER L 63
Cured: KIWO REDUCER L 63

After a storage of approx. 1 hour (depending on adhesive thickness) in the solvent bath of KIWO-REDUCER L 63 the adhesive film can be removed. The solvent bath should be covered, take care of explosion hazards.

5. PHYSICAL PROPERTIES

COLOR Colorless, slightly yellow

DENSITY Approx 1,14 g/cm³

VISCOSITY Approx. 3000 mPas (Rheomat STV, Measuring System CII, 20°C)

SOLIDS CONTENT 100%

STORAGE 9 months (at 20° – 25°C and tightly closed original container). Use opened bottles as soon as possible.

KIWOBOND UV 3000 is sensitive to temperature and therefore may not be heated above 50°C.

6. HEALTH HAZARDS/ ENVIRONMENTAL PROTECTION

Please follow further information given in the Material Safety Data sheet.

7. PACKAGING 1 kg

Thank you for choosing KIWO.