

KIWOBOND® UV 3000

UV-light curing screen adhesive

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

PROPERTIES

KIWOBOND UV 3000 is a very fast curing UV-reactive adhesive, which is sensitive in a wide UV-wave length range. It is odourless, easily applicable and has a very good solvent resistance after curing with the exception of chlorinated hydrocarbons. KIWOBOND UV 3000 is suitable for all mesh types. In general, used or destroyed meshes can easily be removed from the frame.

Notice: Due to the many variables of available frame types and their condition, it is recommended to test the suitability of KIWOBOND UV 3000 for the applied frame.

APPLICATION

Before use, thoroughly remove any old adhesive residue from the frame. Best adhesion can be achieved on sand-blasted aluminium frames. To stretch again successfully, the old adhesive film must be even and without break-outs, a surface roughness of max. 40 µm is also required. The solvent resistance can be reduced due to the old adhesive film.

Depending on the application, use KIWOBOND UV 3000 as follows:

1. Brush-through method: Apply the adhesive with a hard brush or an automatic device through the stretched mesh onto the frame.

2. Pre-brush method: Apply the adhesive with a dispenser onto the frame. This method is mainly recommended for aluminium die-cast frames as used 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 source, the distance to the bonding area, the thickness of the adhesive film and the mesh to be stretched. A clearly longer exposure time is therefore required for dyed or very fine meshes due to their shading effect. Especially short exposure times can be achieved using our ULTRA FLASH CURING system (Please ask for detailed information). 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 only left open for a short time when taking material out.

CLEANING

Unhardened: KIWOSOLV L 63

Hardened: KIWOSOLV L 63

After a storage of approx. 1 hour (depending on the adhesive thickness) in a solvent bath of KIWOSOLV L 63 the adhesive film can be removed. Cover the solvent bath and take care of explosion hazards.

COLOUR	Colourless, slightly yellow
DENSITY	Approx. 1,14 g/cm ³
VISCOSITY	Approx. 3.000 mPas (Brookfield RVT, spindle 4, 20 r/min, 20°C)
SOLIDS CONTENT	100%
HEALTH HAZARDS/ ENVIRONMENTAL PROTECTION	Please follow further information given in the material safety data sheet.
STORAGE	1 year (at 20 - 25°C and tightly closed original container). Use opened bottles soonest possible. KIWOBOND UV 3000 is sensitive to temperature and may therefore not be heated over +50°C.