

KIWOBOND® 1100 PowerGrip

Fast drying, two-component screen adhesive, very resistant to solvents

KIWOBOND 1100 PowerGrip is a fast drying, two-component screen adhesive for a highly chemical resistant bonding of screen meshes to frames made of aluminium, steel, wood and galvanized iron. It is applied by brush and after curing almost completely solvent resistant. KIWOBOND 1100 PowerGrip is fast drying with very short time in the stretching unit and allows bondings of screen meshes with high tension values without any loss of tension after having released the frame from the stretching unit. The adhesive film does not embrittle and does not cut the mesh if some adhesive has been brushed into the screen surface.

APPLICATION

Before use, thoroughly remove any old adhesive residue from the frame with e.g. PREGAN DL. This is not necessary if the old adhesive film shows an even surface without break-outs. If sand-blasted aluminium frames are used, ensure that the dust is being removed. The bonding areas have to be free from fats and all other materials operating as separating agents. To achieve best adhesion it is recommended in some cases to apply the hardener KIWODUR 1100 PowerGrip series onto the frame.

Before use, mix KIWOBOND 1100 PowerGrip with 20% KIWODUR 1100 PowerGrip. Stir both components well and apply within approx. 60 min. Using pressure, apply the adhesive mixture with a hard brush onto the area of the mesh to be bonded. KIWOBOND 1100 PowerGrip offers the advantage of drying extremely fast, especially if a relatively thin adhesive film is applied. For very fine meshes (more than 100 threads/cm) the mixture can be reduced with a little KIWOSOLV L 63.

The drying time mainly depends on the mesh to be bonded, the quantity of adhesive to be dried and the room temperature in combination with the respective air circulation.

Guide values at 20°C:

Mesh	Time in the stretching unit
100 – 40	Approx. 7 min
51 – 70	Approx. 10 min
21 - 140	Approx. 15 min

While a relatively good resistance to water and many solvents is already achieved after approx. 1 hour, full resistance will only be reached after a total curing time of approx. 1 – 2 days.

Although KIWOBOND 1100 PowerGrip has a very good solvent resistance, it is advisable to protect the adhesive layer with a protective lacquer especially if automatic screen washing units are to be used. ESTELAN Y 224-03 is especially suitable (see separate technical product information). The protective lacquer can be applied after approx. 2 - 3 hours depending on the applied adhesive quantity and drying conditions.

COLOUR VARIATIONS In order to distinguish different mesh qualities or colour sets, KIWOBOND 1100 PowerGrip is available in different colourings. The standard hardener KIWODUR 1100 PowerGrip produces a red colouration while a green bonding is achieved with KIWODUR 1103 PowerGrip.

Furthermore, the colourless hardener KIWODUR 1101 PowerGrip can be used together with the KIWOCOLOR pigment pastes (see separate Technical Information) to get colourings of blue (B-05), green (G-13) or yellow (Y-03).

POTLIFE Approx. 60 min. after adding 20% of the respective KIWODUR hardener (depending on the room temperature and mixed adhesive quantity)

REDUCING KIWOSOLV L 63

CLEANING Unhardened: KIWOSOLV L 63
Hardened: PREGAN DL

COLOUR Colourless

FLASH POINT Approx. - 18°C

**HEALTH HAZARDS/
ENVIRONMENTAL
PROTECTION** When working with KIWOBOND 1100 PowerGrip and the KIWODUR hardeners ensure sufficient ventilation of the working areas. Avoid contact with eyes and skin. Keep away from sources of ignition. Do not smoke.

Please follow further information given in the material safety data sheets.

STORAGE 1 year at 20 - 25°C and tightly closed original container

At temperatures of approx. + 8°C, KIWOBOND 1100 PowerGrip can become gel-like. Warm up to minimum +20°C temperature and shake or stir well to achieve normal consistency. Freezing and warming-up do not have any influence on the adhesion strength.