

KDSCREEN ADHESIVE RED 1000

Technical Data Sheet

A 2-component adhesive for adhering mesh to screen printing frames

ADHESIVE:

HIGHLY FLAMMABLE:
IRRITANT

UN NO:

FLASH POINT - 18°C

ADHESIVE containing flammable liquid
Contains Ethylacetate, Acetone

1133

HARDENER:

HIGHLY FLAMMABLE:
HARMFUL

UN NO:

FLASH POINT - 8°C

ADHESIVE containing flammable liquid
Contains Ethylacetate & Diphenyl methane
diisocyanate. Also contains Isocyanate

1133

PRODUCT DESCRIPTION

KDSCREEN ADHESIVE RED 1000 is a two component system comprising a mixture of polymer resins and dyes in solvent and an isocyanate based hardener in solvent.

APPLICATIONS

The product is used for adhering stretched mesh to screen printing frames. The product has excellent solvent and chemical resistance, and high shear strength, allowing maximum screen tensions to be achieved. The very high level of solvent resistance (without the need for protective over-lacquers) makes the product ideal for high volume printers with automated cleaning equipment, and screen stretching houses who require the highest levels of reliability.

KDSCREEN ADHESIVE RED 1000 is sold strictly for use in the screen printing industry.

WORKING & SAFE HANDLING INSTRUCTIONS

This product must be used in well ventilated conditions where solvent vapour levels will not accumulate. Occupational Exposure Standards are as follows:-

- Ethylacetate is 400 ppm (suppliers recommendation).
- Isocyanate is 0.005 ppm (in the form of respirable aerosols)

If these limits are likely to be exceeded, respiratory equipment such as 3M 8712 should be used. The operator must wear PVC or rubber gloves during application, and if large

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MIXING

In common with other products of this type, the adhesive exhibits a tendency to separate during storage and should be shaken thoroughly before use. The two components should be mixed as follows:-

Adhesive:	9 parts (by volume) or 100 Grams (by weight)
Hardener:	1 part (by volume) or 11.75 Grams (by weight)

The product has a pot life of 1-2 hours. Only enough product should be mixed that can be used within this time. The two components should be mixed thoroughly in the container supplied, with lid closed to prevent evaporation. Note that poor mixing, contamination with other substances (including traces of water), or use after 1-2 hours mixed, will adversely affect the performance of the adhesive. .

Any mixed, unused product should be allowed to dry and harden in an open container, and then be disposed of as 'solid waste'.

PRE-TREATMENT OF FRAMES

New wooden frames do not normally require any special pre-treatment provided they are clean and dry. Steel and aluminium frames should be roughened with an abrasive wheel and then thoroughly degreased. All traces of rust, oxidation, grease and other impurities must be removed. Painted metal frames should be similarly degreased and it is advisable to establish that the painted surface is compatible with KDSCREEN ADHESIVE RED 1000.

All new aluminium frames should be prime coated by brushing a thin layer of product on the frame and allowing to dry thoroughly prior to stretching.

BONDING FABRIC TO FRAME

Stretch the fabric over the frame with tensioning device and make sure that good contact is achieved between fabric and frame surface. Apply KDSCREEN ADHESIVE RED 1000 using a suitable brush ensuring the fabric is fully encapsulated with the adhesive. Allow adhesive to dry thoroughly before cutting out frame. (Typical drying time is 15-20 minutes @ 20-25°C/55-65% RH). An efficient ventilation system with good solvent extraction will help reduce drying times. Release the stretch tension and trim off excess fabric. The frames will achieve maximum solvent resistant after about 24 hours.

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HAZARDS

The hazards associated with the product when mixed are those connected with the presence of isocyanate which has sensitizing properties, and is irritating to skin, eyes and respiratory system. There is a narcotic effect at high concentrations. Overexposure will cause irritation of the mucous membranes in the nose, throat and lungs, dryness of the throat, pressure on the chest, sometimes accompanied by breathing difficulties and headaches. Ingestion may produce similar effects with internal discomfort.

Repeated skin exposure to acetone may result in loss of protective oils from the skin with an increased vulnerability to dermatitis. The maximum exposure limits for acetone in the UK is 1000 ppm for an 8-hour working day. Please refer to local regulations before use.

The Hardener may cause irritation and sensitization of the respiratory tract and skin.

Strict attention must be paid to personal protection advice, which will isolate the user from the hazards. Do not mix with other chemicals. Do not eat, smoke or drink when using.

WARNING: SOLVENT ABUSE

Intentional misuse of this product by deliberately concentrating and inhaling the vapours may be harmful.

FIRE PRECAUTIONS

Both the Adhesive and the Hardener are highly flammable. Keep away from sources of ignition, do not smoke, and take precautionary measures against static discharges. If involved in a fire, toxic decomposition products will be liberated and breathing apparatus should be worn.

SPILLAGE

Small quantities: Allow to dry off and dispose as solid waste.
Large quantities: Absorb in sand and collect for chemical disposal.

FIRST AID

Inhalation: Remove to fresh air and rest.
Keep warm, treat for shock. Get physician to administer oxygen if necessary.

Eyes: Irrigate for 15 minutes with water holding lid away from eye.

Skin: Wash thoroughly with soap and water. Apply skin cream.

Ingestion: Do not induce vomiting. Dilute with water and get urgent medical attention.

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SHELF LIFE & STORAGE

In common with other products of this type, The Adhesive will exhibit a tendency to separate on storage, particularly at low temperatures (below 5°C). Ideal storage conditions

are between 15-25°C out of direct sunlight. The containers are fully tested and UN approved for this product, however, elevated temperatures or exposure to sunlight may cause the container to distort, or the contents to escape under pressure.

Store sealed containers in an area where spillage may be contained, and out of the reach of children. Never use the product in aluminum containers or expose to moisture, or hot surfaces. Shelf life is one year.

ENVIRONMENTAL

The Adhesive comprises a mixture of polymer resins in acetone and ethyl acetate solvent. The solvents are not ozone depletants and have low tropospheric photochemical ozone creation potential. Acetone and ethyl acetate have a relatively short atmospheric degradation period. The product should not be discharged into watercourses or sewers. Disposal should only be carried out by authorised waste chemical disposal contractors.

The Hardener comprises a mixture of isocyanate in a dyed ethylacetate solvent. The product should not be discharged into watercourses or sewers. Disposal should only be carried out by authorised waste chemical disposal contractors.

DISPOSAL

Dispose only as chemical solvent waste.

PACKAGING

The Adhesive and Hardener are sold together.