

Piwisinn der Kissel + Wolf GmhH

Replaces the Technical Information dated 08.03.17

Update: 19.05.18

POLYTEX®W 690

One-component photopolymer emulsion for textile printing

POLYTEX W 690 is used for the production of stencils which are resistant to aqueous printing media and plastisol inks.

SENSITIZING Not applicable, as ready-to-use.

DEGREASING Before coating it is recommended to clean and degrease the screen mesh to

achieve reproducible coating results. Ensure proper tension of the screen mesh. Use manual degreasers of the PREGAN range or KIWOCLEAN degreasing concentrates for automatic units (see separate technical information). After thorough rinsing with water and drying the screens are

ready for coating.

COATING The coating of the screen generally begins from the printing side in order to

fill the mesh openings. Only then begin with the emulsion build-up from the squeegee side, e.g. 2-1, 2-2, 2-3,... The use of the a coating machine is especially recommended because it achieves an even and reproducible

coating result.

DRYINGThe screen must be dried thoroughly before exposing to achieve the highest

ink resistance. This should preferably be done in a dust-free drying-chamber

with fresh-air inlet at temperatures of between 35-40°C.

EXPOSURE The stencil is created by UV-light hardening of the non-printing stencil parts.

Expose with blue actinic light at a wave length of 320-380 nm. A metal halide lamp provides the best results. Due to the many variables that determine the actual exposure time, accurate exposure times cannot be given. Optimum

copying results can only be achieved by trials (step exposure).

Guide values:

Light source: 5.000 W metal halide lamp at a distance of 1 m. Manual coating (H), e.g. twice from the printing side, then twice from the squeegee side [2D/1R (H)]

| Mesh | Coating technique | Average exposure time |
|-----------|-------------------|-----------------------|
| 77-55 (Y) | 2D/1R (H) | Approx. 30 sec |
| 51-80 (W) | 2D/2R (H) | Approx. 40 sec |

D: Coating from the printing side, R: coating from the squeegee side

This data sheet is for your information. A legally binding assurance of the product's suitability for a specific purpose cannot be derived from it and no liability can be assumed for any potential damages that may occur. Liability for damages due to a slightly negligent breach of duty on our part or on the part of our legal representative or vicarious agent is excluded. Our liability for damages due to injury to life, body or health is not covered by this limitation of liability. Our products are subject to continuous production and quality control and leave our company in perfect condition.

This product is intended solely for industrial applications and not for use by the end consumer. We recommend to our customers to always test the product themselves since only in this way – also after production – can the freedom from certain substances and the suitability for a particular purpose be verified. The user has to test the product for suitability for the intended application. We reserve the right to modify product specifications. Tests that are not part of the specifications of the product mentioned above have not been carried out. All information applies only to the above-mentioned product obtained from Kissel + Wolf GmbH. It corresponds to our current state of knowledge, but is not a confirmation of a particular application and is not automatically replenished.

All information is valid for a maximum of 12 months from the date stated above (annexes may be provided with their own date). Any industrial property rights as well as existing laws and regulations are to be observed by the recipient of our product on his own responsibility. Intellectual property rights of third parties must be observed. Our terms and conditions of sale and delivery shall apply.

^{/:} following coating stroke

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POST-HARDENING

Stencils made using POLYTEX W 690 also permit long runs when printing with aqueous inks without post-treatment. Under extreme circumstances, the screen can additionally be post-hardened. Depending on the printing resistance and decoatability various hardeners of the ARC range are suitable. For further information contact your ARC distributor or ARC.

RETOUCHING/ BLOCKING-OUT

For retouching / blocking-out, use products of the KIWOFILLER range. When printing with aqueous inks, preferably use water based products with dry water resistant. These can be removed with PREGASOL decoating agents and a high pressure water washer. Ask you ARC distributor or ARC direct for advice.

DECOATING

The screen which has thoroughly been cleaned from ink residue with either water or solvent based cleaners (PREGAN or KIWOCLEAN LM products) can be decoated with PREGASOL products. Due to the high resistance of the photoemulsion a high pressure water washer is necessary.

Use a PREGAN post-cleaner to remove any ink residue or so-called ghost images which may remain on the screen after decoating. Trials are essential as the type of residue may vary. Please make tests and ask for samples.

NOTICE

Please note that the printing resistance of a screen printing stencil is influenced by many parameters e.g. mesh, coating technique, drying, exposure time etc. Furthermore, a lot of printing media and printing machines are being used in practice which have not all been tested by us. Therefore, please accept our offer and test the suitability of our products by asking for emulsion samples, as we can only guarantee a constant quality according to our own working conditions.

COLOUR

Red

VISCOSITY

Approx. 2600 mPas (Rheomat RM 180, MS 33, D = 100 s^{-1} , 23°C)

HEALTH HAZARDS/ ENVIRONMENTAL PROTECTION Please follow further information given in the material safety data sheet.

STORAGE

1 year (at 20-25°C). Protect against freezing.

Screens coated in advance: approx. 4 weeks (at 20-25°C and in complete darkness). Dry again prior to copying.