Screen Chemicals

# QUADREX

Code N°160140

## PRODUCT DESCRIPTION

DIAZO photoemulsion indicated for the preparation of screens for textile continuous printing

## APPLICATION FIELDS

Photoemulsion indicated for printing with:

- Water-based inks

## TECHNICAL FEATURES

- COLOUR = BLUE
- SOLID CONTENT = 38%
- VISCOSITY (*) = about 6000 cPs (25°C)

(*) Before sensitizing

## APPLICATION PROCESS

| | |
|---|---|
| **Sensitizing** | **DIAZO SENSITIZER POLVERE HD**<br>It needs to be diluted into water |
| **Application** | Depending on the used mesh |
| **Drying** | 25°C – 30°C |
| **Exposure** | Depending on the applied photoemulsion quantity |
| **Development** | Water |
| **Retouching** | In case, products of the series **DURAL ARCHIM** |
| **Varnishing** | In case, products of the series **DURAL ARCHIM** |
| **Catalysis** | **CATALYST 200** or **CATALYST 210** |
| **Recovery** | With products of the series **POLISTRIP** |
| **Package** | 5 Kg |
| **Security Data Sheet** | Available upon request |

**SENSITIZING:**
QUADREX must be sensitized with:

- **DIAZO SENSITIZER POLVERE HD**

add the sensitizer, previously diluted into demineralized water, to the photoemulsion. The de-aeration time is about 2 hours. The mixture has a pot-life of 1 week, if kept in a cold place (4-10°C) and away from light.

**APPLICATION**:
The application depends on the mesh of the screen. The recommended range is from 34 Th/cm to 77 Th/cm. For example, with a 62 Th/cm mesh, it is recommended to apply a photoemulsion layer on the “printing side” and a photoemulsion layer on the “squeegee side” (by following the indicated sequence).

## GENERAL FEATURES

- DIAZO photoemulsion
- It requires to be sensitized through DIAZO-COMPOSTI
- Excellent resistance to water-based inks
- Excellent mechanical resistance
- SOLVENT-free

**DRYING:**
Do not absolutely exceed 25°C – 30°C. If higher temperatures should be used, the screen development would be irreversibly compromised. The drying time may vary, according to the applied photoemulsion quantity.

**EXPOSURE:**
The exposure depends on the applied photoemulsion quantity. It is recommended to use a METAL-HALOGEN UV 5000 W lamp. For example:

- Sensitizer: **DIAZO SENSITIZER POLVERE HD**
- Screen = 55 Th/cm
- Lamp = metal-halogen UV 5000 W
- Distance = 140 cm
- **Exposure Time = 80-90 seconds**

**DEVELOPMENT:**
It is recommended to dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet and, subsequently, dry into oven at a temperature of about 30°C – 40°C.

**RETOUCHING:**
The possible retouching may take place with the products of the series **DURAL ARCHIM**.

**CATALYSIS:**
The photoemulsion has ALWAYS to be catalyzed with **CATALYST 200** or **CATALYST 210**. The so treated screen may be used after 12 hours (drying at room temperature). **Note:** The catalyzed photoemulsion may not be recovered (removed from the screen) anymore.

**VARNISHING:**
If a partial (bands) or total protection of the screens is needed, it is recommended to use the products of the series **DURAL ARCHIM**.

**RECOVERY:**
If the recovery of the screens after printing is needed, it is recommended to use the products of the series **POLISTRIP**.

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## SPECIAL INSTRUCTIONS

- Always test the characteristics of the products, before starting application.
- Always use the product in a yellow light shielded environment.
- The sensitizers have to be kept at a temperature of about 5°C. In these conditions, the product has a shelf-life of about 1 year.
- The non-sensitized emulsion, if kept at a maximum temperature of 20°C has a shelf-life of about 1 year.
- The sensitized emulsion, if kept at a temperature of about 4°C - 10°C, has a pot-life of 1 week.

## IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.
While we endeavor to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.
Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.
The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.