**TEXPRINT DISCHARGE BIO**

**Code: AM100635**

**PRODUCT DESCRIPTION**

Two-component water based ink for discharge textile printing. Formaldehyde free. Ecological.

**APPLICATION FIELD**

Water based ink indicated for:

textile direct printing only on dischargeable dark fabrics.

Suitable for cotton fabrics.

* High discharging power onto dark substrates
* Excellent printability
* Bright colours
* Very soft touch
* No tack
* No drying on the screen
* PVC, formaldehyde and phthalate free
* Heavy metal free
* APEO free
* Soluble in water
* It doesn’t require washing before wearing

**GENERAL & TECHNICAL FEATURES**

**PEPARATION**

**TEXPRINT DISCHARGE BIO** is a two-component ink. It must be mixed with 8% of **TEXPRINT CORRODENTE BIO** (activator).

Add max 6% of **TEXPRINT COLORANTI** (water based pigments). Please note that the pigments used have to be resistant to discharge inks.

If an optical white effect is required, add max 10% of **TEXPRINT COLORANTE BIANCO** (suitable for discharge printing). We recommend to prepare the colour mixture in advance and then, as last things before printing, add the activator **TEXPRINT CORRODENTE BIO.**

The activator quantity can be increased up to 10% to increase the discharging power.

The mixture (TEXPRINT DISCHARGE BIO + TEXPRINT CORRODENTE BIO) has a pot-life of 8 hours.

**PRINTING**

Before printing it is necessary to check that the fabric has been dyed with dischargeable dyes.

It can be printed with screens up to 90 mesh (th/cm).

In order to obtain the best colour opacity and brightness, during printing, it is recommended to adjust the out of contact, the inclination and the pressure of the squeegee at their best.

For the best resistance in printing we advise to use AMEX photoemulsions **SCREEN SOL Q BLU** and **SCREEN SOL GK PLUS BLU**.

If long runs are required we suggest to catalyse the screen with **SCREEN-CHEM CATALYST SPECIAL**.

We advise to use a 70/75 shores squeegee.

**TEXPRINT DISCHARGE BIO** is indicated for wet on wet printing.

**CURING**

To achieve good polymerization and discharge effect it is necessary to dry **TEXPRINT DISCHARGE** **BIO** at 160°C for 2-3 minutes. It is possible to dry the **TEXPRINT DISCHARGE BIO** also with the heat press at 160°C for 1-2 minutes.

With the polymerization **TEXPRINT DISCHARGE BIO** doesn’t develop formaldehyde. For this reason is not necessary to wash the garments before wearing.

**RANGE**

**TEXPRINT DISCHARGE BIO** range is composed by:

1. TEXPRINT DISCHARGE BASE BIO

Clear base.

1. TEXPRINT DISCHARGE BIANCO BIO

Opaque white.

1. TEXPRINT DISCHARGE BIANCO SUPER BIO

Super opaque white.

**ADDITIVES**

TEXPRINT THINNER

Thinner. It helps to improve the printability and to thin the ink reducing the viscosity.

It also helps to prevent and slow the drying of the ink on the screen.

(Maximum percentage of 5%)

TEXPRINT RITARDANTE

Retarder. It helps to prevent and slow the drying of the ink on the screen.

(Maximum percentage of 5%)

TEXPRINT RITARDANTE GEL

Retarder. It helps to prevent and slow the drying of the ink on the screen. Thanks to its “gel form” it does not reduce the viscosity.

(Percentage between 2% and 5%)

TEXPRINT ADDENSANTE W

Thickener. It helps to increase the ink viscosity. We suggest to use a mechanical mixer to disperse the additive uniformly on the whole mass of the product.

(Percentage between 0,5% and 3%)

TEXPRINT ADDITIVO E

It helps to improve the elasticity of the water based ink.

(Percentage of 5%)

TEXPRINT ADDITIVO S

It helps the “wet on wet” printing system. It helps also to slow the drying of the product on the screen.

(Maximum percentage of 5%)

TEXPRINT ADDITIVO AL

It helps to avoid the transfer of stamping foil.

(Percentage between 5% and 15%)

TEXPRINT FISSATORE

Fixing agent. It helps to increase the solidity of the water based pigments and the washing resistance.

(Percentage between 2% and 3%)

TEXPRINT CATALIZZATORE UNIVERSALE

Catalyst/Hardener. It helps to increase general washing resistance of the water based inks.

(Percentage between 1% and 5%)

**CLEANING**

Wash tools with water.

**STORAGE**

If stored in its original container at a temperature between 10°C and 25°C **TEXPRINT DISCHARGE BIO** will preserve its features for at least 1 year from the date of production.

**NOTE**

Before using the ink in production, it is necessary to make some tests in order to evaluate if the product satisfies the requirements.

It is also important to check the curing conditions, the addition of additives could require a longer or a shorter curing time. Squeegees, screens and other tools must be cleaned well in order to avoid any possible contamination.

In order to avoid a quick drying on the screen:

* Print and lay on the screen an appropriate quantity of ink.
* In case of long breaks, cover the stencil on the screen with the ink. Eventually spray small quantities of water before starting again.
* Nebulize water in order to compensate the loss of humidity.