

Series

IA

Type: water

Printing process: screen printing

Ink type: one and two-component

Finish: satin

Materials: Natural fabrics, Synthetic fabrics

Natural fabrics, Cotton, Linen, Cotton Blend.

Main features:

Trasparent printing paste ready-to-use containing soft binder polymers. (PH 9 - 10).

Thanks to its special formulation, the product allows to obtain articles with no release of formaldehyde, in order to satisfy the most elevated standard.

The prints on cotton, synthetic and cotton-synthetic fabrics, are extremely soft and brilliant.

Use:

The product can be printed both in silk-screen printing with 120 threads, and in continuous.

PASTA DA STAMPA IA already contains all the necessary products for fixation and only must be added of the colored pigment quantity necessary to obtain the requested shades.

Fixation

Prints must be cured in hot air at 150°C for 3 minutes or at 140°C for 4 minutes or at 160°C for 2 minutes.

Certifications: CLP/GHS (EC 1272/2008), Conflict minerals free, EN 71-3, Reach (EC 1907/2006), RoHS

The EN 71:3 Directive is valid for standard shades of one component inks, two component inks, Ink system and Process colors, HD shades and for all not standard shades which do not contain metallic shades, metallic pastes or fluorescent pigments or inks.

In order to clarify any doubt on not standard shades, it is always recommended to provide us a specific request.

Eco-sustainability (free of): Bisphenol A (BPA), Cyclohexanone, Latex, Melamine, Phthalates (listed in RoHS directive)

Note: shades in the fluorescent color chart contain formaldehyde.

Note: all our inks are formulated with non carcinogenic aromatic naphthas as the benzene content is below than 0.1% by weight.

IPA contamination are also possibile but always below the limit of 1000 ppm.

Outdoor resistance (years): 1

Not suggested for outdoor exposure

Drying process: oven

Polymerization, on dry fabric, at 150-160°C for 3 minutes.

Mechanical and chemical solidity:

Surface hardness (Abrasion)	
Washings	

Colours range: EXTRA - M, QUADRICROMIA, VARIE

160 BC	165 BC	1080	1081	1082	1083	BIANCO PER CORROSIONE/E	CORROSIVO IN POLVERE/E	BIANCO ANTILAMINA	BIANCO NDE
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Series

IA



PASTA IA NEUTRA COPRENTE NDE

White paste (PH 9,5).

PROPERTIES

Ready-to-use printing paste specifically developed for printing on elastic and knitted dyed fabrics.

The product is free from phthalates, PVC, APEO etc. and with a very low release of formaldehyde, thus allowing to operate in the full respect of regulations in force and meet the requirements of most stringent standards.

PASTA IA NEUTRA COPRENTE NDE allows to obtain prints with very intense colours and matt finish as typical for water-based products, but with a considerable elasticity.

The main feature of this paste (as for the other products of this series) is represented by its runnability performances during printing, that are very similar to a plastisol: this allows to use extremely fine printing screens, therefore to obtain very detailed patterns. The products does not dry in the printing screens, thus eventual downtimes are well tolerated, and printing equipment can be washed with water only, also after many hours.

Dry/wet rub and wash fastness properties are very good.

APPLICATION

To obtain intense colours with high covering effect we suggest the following recipe:

PASTA IA NEUTRA COPRENTE NDE	g. 940
Colored pigment	g. 60
	g. 1000

Fixation: After drying, prints must be cured at 150-160°C for 3 minutes.

PASTA IA NEUTRA NDE

White paste. (PH 9)

PROPERTIES

Ready-to-use printing paste specifically developed for printing on elastic and knitted dyed fabrics.

The product is free from phthalates, PVC, APEO etc. and with a very low release of formaldehyde, thus allowing to operate in the full respect of regulations in force and meet the requirements of most stringent standards.

PASTA IA NEUTRA NDE allows to obtain prints with very bright and intense colours and a good elasticity, while maintaining the typical handle of water-based products.

The main feature of this paste (and of other products of this series) is represented by its runnability performances during printing, that are very similar to a plastisol; this allows to use extremely fine printing screens, therefore to obtain very detailed patterns. The products does not dry in the printing screens, thus eventual downtimes are well tolerated, and printing equipment can be washed with water only, also after many hours.

Dry/wet rub and wash fastness properties are very good.

APPLICATION

To obtain intense colours with good covering effect, we suggest the following recipe:

PASTA IA NEUTRA NDE	g. 950
Colored pigment	g. 50
	g. 1000

Fixation : After complete drying, cure for 3 minutes at 150- 160°C.

PASTA IA NEUTRA COPRENTE BC

(Paste pH 8 - 11)

PASTA IA NEUTRA COPRENTE BC is a ready-to-use printing paste only for screen printing, characterized by an excellent covering power which makes it suitable for colored prints on dyed backgrounds.

Series

IA

We recommend to print it using screens with maximum 55 threads/cm.

It's possible add 30-50 g/kg of ADDITIVO ANTILAMINA to obtain a softer hand and a better fastness to dry rubbing. 3% of ADDITIVO ANTILAMINA also allows an anti-foil effect.

To obtain more intense and brilliant colors, we recommend to add up to 60 g/kg of our colored pigments.

Example

PASTA IA NEUTRA COPRENTE BC	890 g.
ADDITIVO ANTILAMINA	50 g.
COLORED PIGMENTS	60 g.
	1000 g.

The prints obtained have good general fastness, excellent yield and color brilliance.

Fixation: by polymerization on very dry fabric at 150°C for 3 minutes.

LEGANTE PER GLITTER ALL'ACQUA

LEGANTE PER GLITTER is a ready-to-use paste, exempt of solvents, especially developed for glitter printing.

Whitish paste

Characteristic of resin and ammonia.

pH 8.5 - 9.5

APPLICATION AND DOSAGES

We suggest to add at LEGANTE PER GLITTER, up to 100 g/kg of glitter and use 11-34 threads/cm flat screen. It is possible to use LEGANTE PER GLITTER with galvanic rotary screen or 40/80 traditional rotary screen. We advise the printing mainly on cotton

(knit e/o plain fabric), or mixed and synthetics fabrics.

If is necessary to reduce the viscosity, we advice to add, under stirring, max 10% of water. After printing and drying it is necessary to cured the fabric at 150-160°C for 3 minutes.

Notes: before the usage of our products in bulk conditions, we advice to carry out some tests in order to evaluate if the product reach customer requirements.

This product may contain free formaldehyde in amount lower than 0,1%. This product, when applied according to recommended instructions, is suitable for producing fabrics that comply with the requirements of Oeko Tex Standard 100, Class I.

PASTA NEUTRA M

White paste. PH 9,5.

PROPERTIES AND APPLICATION

PASTA NEUTRA M is a ready-to-use printing paste containing soft binders polymers.

PASTA NEUTRA M already contains all the products needed for fixation; the required amount of colored pigment has to be added only.

Prints obtained are very soft, with good general fastness properties, good colour yield and brilliance both on cotton and synthetic fabrics.

Fixation: After drying, prints must be cured at 150°C for 3 minutes. Lower or higher temperatures need different times, for example: 4 minutes at 140°C, 2 minutes at 160°C.

PASTA NEUTRA MORBIDA IA

Ivory white paste. (PH 9,5)

PROPERTIES AND APPLICATION

Ready-to-use print paste containing soft binders.

Thanks to its special formulation, the product enables to obtain articles with a very low release of formaldehyde and allow to meet the requirements of most stringent standards.

PASTA NEUTRA MORBIDA IA contains all products necessary for fixation; it must be only added of the necessary amount of colored pigment.

Very soft prints, with good colour yield and brightness are obtained both on cotton and synthetic fabrics.

Fixation: After drying, prints must be cured with hot air at 150°C for 3 minutes. Lower or higher temperatures require different

Series

IA

times, ex. 140°C for 4 minutes, 160°C for 2 minutes.

Auxiliaries and additives:

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CATALIZZATORE PER IA

Polyfunctional catalyst based on aziridine.

Yellowish liquid.

PH 8.5 - 9.5 (solution 10%).

PROPERTIES

CATALIZZATORE PER IA is a cross-linker agent for pigment printing pastes either contain acrylic binders or PU binders;

CATALIZZATORE PER IA permit to improve fastness especially wet fastness.

It's is especially suitable for the application on synthetic fabric and PVC.

APPLICATION AND DOSAGES

We suggest to use CATALIZZATORE PER IA in amount of 5-10 g/Kg, depending on fastness requirements.

We suggest the addition of CATALIZZATORE PER IA under stirring just before printing.

Stability of printing paste containing CATALIZZATORE PER IA is restricted to 24 hours.

It is possible to use the catalyst with no high temperature curing process, in this case we suggest to evaluate the fastness after 36-48 hours.

DILUENTE RITARDANTE WB

Transparent liquid (pH 8,5)

PROPERTIES

Diluyente ritardante WB is a modified polyglycol derivative, used as lubricant and damp giver for all kind of pigment print pastes.

This product prevents drying of lacquers, whites and print pastes during the printing process, thus avoiding clogging of screens or rollers and enhancing productivity

APPLICATION

Dosage : from 20 to 40 g/Kg

ADDENSANTE IA

White paste. (PH 4,5)

PROPERTIES

ADDENSANTE IA is a rheology modifier to be added to print paste.

The advantages obtained by using this product are:

- . better sharpness, especially with finelines
- . higher viscosity of the print pastes
- . lower penetration into the fabric and better levelness
- . higher colour yield

APPLICATION

ADDENSANTE IA is used at a concentration between 5 and 15 g/Kg.

The product is added, under stirring, either to the stock print pastes or to the finished print pastes.

ADDENSANTE IA has an acid pH. We therefore suggest to check the pH of the print paste, that has to be alkaline ; when necessary, the addition of 1-2 g/Kg ammonia is recommended.

ADDITIVO ANTILAMINA

White Paste (PH 8,5)

PROPERTIES

ADDITIVO ANTILAMINA is an auxiliary product especially studied to improve some features of pigment prints.

Series

IA

ADDITIVO ANTILAMINA improves dry rub fastness properties and gives a soft, pleasant and smooth handle to the printed fabric.

The product does not belong to the category of softeners as they tend to lower than to increase the fastness to rubbing.

ADDITIVO ANTILAMINA increases the values of dry rub fastness and also improves runnability by acting favorably on the flow properties and stability of the print paste.

ADDITIVO ANTILAMINA is used on all types of textile products, but it is particularly recommended for synthetic fabrics and blends.

APPLICATION

ADDITIVO ANTILAMINA is used at a concentration ranging between 10 and 50 g/Kg.

The product must be incorporated, under stirring, directly to the stock paste or to the ready-to-use print pastes such as whites, lacquers, gold and flitter binders, etc.

Ink removal:

Water

DACS solvent (only for catalyzed mesh)

Lavaggio telai solvent (only for catalyzed mesh)

Aprimaglia Spray (only for catalyzed mesh)

STORAGE:

Please keep the cans in a dark place, at temperature of 15-25°C.

If the recommended temperature is higher than the suggested one or the cans are not completely closed, the shelf life and the qualities are drastically reduced.

CLASSIFICATION:

Before using this ink, consult the relevant safety data sheets available.

The safety data sheets provided comply with the REACH regulation (EC 1907/2006).

The hazard classification and related labelling are compliant with the CLP / GHS regulation (EC 1272/2008).

OTHER INFORMATION:

For more information on SERICOM ITALIA srl products, refer to the website www.sericom.it

NOTE:

Our technical consultancy activity, carried out orally, in writing or through tests or experiments, takes place on the basis of our best knowledge.

However, the same must be considered as information without any binding value, also as regards any third party industrial property rights.

This does not exempt the customer from performing his own checks on the products supplied by us in order to estimate the suitability or otherwise of the procedures and for the purposes intended.

The application, use and transformation of the products take place outside our control possibilities and therefore fall under the exclusive responsibility of the customer.