



Printing & Screen printing



ACHITEX MINERVA

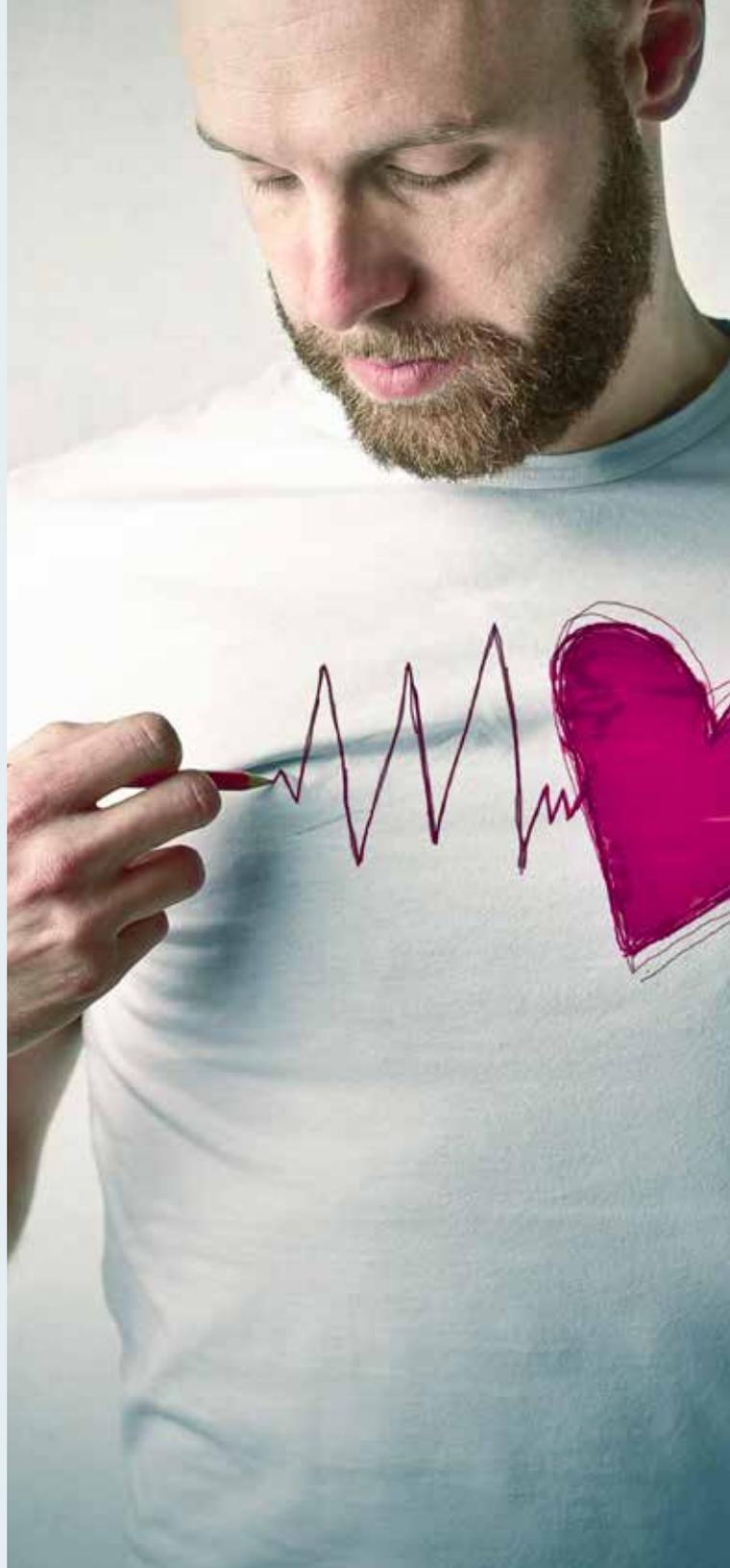


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ACHITEX MINERVA



No release of formaldehyde
(see Technical Data Sheet)



Low release of formaldehyde: suitable
for producing fabrics that comply
with the requirements of the Oeko Tex
Standard 100, class I
(see Technical Data Sheet)

All our products are APEO- and phthalate-free

PRINTING

SYNTHETIC THICKENERS

CLEAR CP

Neutralized synthetic thickener for pigment printing, with good stability to electrolytes.

CLEAR F30

Neutralized synthetic thickener for pigment printing. Excellent colour yield, brilliancy and exceptional soft handle, VOC-free.

CLEAR MC

New high concentration synthetic thickener for pigment printing. Not salified thus requiring addition of ammonia. Easy to use and suitable for automatic colour kitchens.

CLEAR MCS

New high concentration synthetic thickener for pigment printing, fully salified. Easy to use and suitable for automatic colour kitchens.

CLEAR SP4

Neutralized synthetic thickeners for pigment printing. Good colour yield and good stability to electrolytes.

DISCHARGE CLEAR

Blend of natural and synthetic thickeners, used in pigment discharge printing with Reducing Agent Z. The product contains white spirit. Printed articles can be steamed even one day later, if temperature and humidity are not extremely high, maintaining a high levelness.

BINDERS

ACHIFIX MBH CONC

Extremely fast acrylic-based binder with soft handle. It can be used on polyamide and polyester fabrics. Pastes prepared with this product ensure excellent dry and wet crocking fastness with soft handle.

BINDER 521

Vinyl-based binder for pigment printing, good rheology properties and fastness, no yellowing and "dry" handle. Suitable for furnishing. Low temperature curing (130°C).

BINDER ACM

Self-crosslinking, acrylic copolymer binder for pigment printing. Good rheological characteristics, soft handle, not yellowing. Normally used for upholstery, when soft handle is required. Good rubbing and washing fastness. Suitable for pigment discharge printing.

BINDER L4

Vinyl-based binder providing a soft handle and excellent rubbing and washing fastness. Pastes prepared with this binder enables to obtain extremely bright colours.

BINDER MINERFAST

Binding agent for pigment printing of new concept and high quality, studied to increase the fastness properties to light and soft "touch" with a natural, synthetic and blends fibers.

BINDER NF

Acrylic binder for pigment printing. Thanks to its special formulation, the product allows to obtain articles with no release of formaldehyde and to meet the requirements of most stringent standards. Suitable for pigment discharge printing.

BINDER NFO

Self-crosslinking, acrylic copolymer binder for pigment printing. Good rheological characteristics, soft handle, not yellowing. Normally used on upholstery fabrics, and every time a soft handle is required. Rubbing and washing fastness are good. Suitable for pigment discharge printing.

BINDER PNA

Self-crosslinking, acrylic copolymer binder for pigment printing. Good rheological characteristics, soft handle, not yellowing. Normally used on upholstery fabrics, and every time a soft handle is required. Rubbing and washing fastness are good. Suitable for pigment discharge printing.

BINDER SE BINDER SE CONC

Self-crosslinking, acrylic copolymer binder for pigment printing. Good rheological characteristics, soft handle, not yellowing. Normally used on upholstery fabrics, and every time a soft handle is required. Rubbing and washing fastness are good. Suitable for pigment discharge printing.

BINDER U 50 D

Blend of acrylic and butadienic binders for pigment printing. Soft handle, good dry cleaning and multiple washing fastness. Used mainly for clothing and for flannel bed sheets. Not recommended for upholstery because of its tendency to yellow after light exposition. Not suitable for pigment discharge printing process.

BINDER WST

Self-crosslinking acrylonitrile butadienic binder for pigment printing. Extraordinary soft handle and very good fastness. Can be used alone for clothing, even on synthetic fibres or their blends, or blended with Binder ACM in any ratio, mostly on pure cotton fabrics. Not recommended for furnishing. Not suitable for pigment discharge printing.

FIXING AGENTS

FIXATOR LF FIXATOR LF CONC

Low formaldehyde fixing agent and crosslinking agent for various binding agent for pigment printing. It improves washing fastness. The risk of amine formation is nearly null.

FIXATOR NFO

Crosslinking agent for formaldehyde-free pigment printing. Absolutely formaldehyde-free, maintains high efficiency and does not have disadvantages in relation to fastness and handle. Suitable for any kind of binder, acrylic and/or butadienic.

CROSSLINKER AF

Fixing agent for reducing time and/or temperature of pigment printing curing. Its action starts even at room temperature. Suggested in all cases, in which high temperature curing cannot be applied.

CROSSLINKER M

Fixing agent for reducing time and/or temperature of pigment printing curing. Its action starts even at room temperature. Suggested in all cases, in which high temperature curing cannot be applied.

EMULSIFIER

EMULSIFIER DF

Non-ionic emulsifier and surfactant in concentrated form. The product is used to stabilize the print pastes, especially in case of blends of many colours, thus improving print runnability. It increases the penetration of pigment pastes and improves levelness of the prints



EMULSIFIER LS

Emulsifier for white spirit. Gives high colour yield and brilliancy with pigments and any kind of dyestuff (disperse, reactive, etc.). Not necessary if thickener already contains emulsifiers.

Ionic character: Non ionic - Anionic

EMULSIFIER NP N

Emulsifier and mechanical stabilizer for acrylic and butadienic binders. Can be used in severe hot or cold climatic conditions.

Ionic character: Non ionic

LUBRICANTS

LUBRILAC AP

Lubricant for pigment printing, maintains printing pastes "wet". Based on modified polyglycolic derivatives, mostly suitable for retarding drying of lacquers, white pastes and all printing pastes increasing runnability and avoiding clogging.

LUBRILAC ZN

Lubricant for pigment printing, maintains printing pastes "wet". Based on modified polyglycolic derivatives, mostly suitable for retarding drying of lacquers, white pastes and all printing pastes increasing runnability and avoiding clogging.

SOFTENERS

FINISH S

High stability siliconic softener, improves dry rubbing fastness and runnability. Gives soft and smooth handle. Suitable for all kind of fibres including synthetic fibres and blends, compatible with all kind of printing pastes.

Ionic character: Non ionic - Slightly Anionic

SOFTENER A 95

High stability softener for printing. Emulsion of several components to be used in solvent-free printing pastes. Gives to cotton or cotton blends substrates a soft, dry, pleasant and smooth handle.

Ionic character: Non ionic - Slightly Anionic

ANTIFOAMING AGENTS

ANTIFOAM F

Non-siliconic antifoam. Acts as antifoam and as de-aerating agent, improves runnability by avoiding fat film formations in cylinders and on printing squeegees. Compatible with anionic and cationic products, improves penetration and stability. No affinity to fibres, easily eliminated from substrates during drying.

Ionic character: Non ionic

ANTIFOAM W CONC

High stability, strong and quick antifoaming action, based on siliconic emulsion. Long lasting antifoaming action in printing pastes preparations.

Ionic character: Non ionic

RHEOLOGY MODIFIERS

ANTI HALO CO 20 N

Rheology modifier. Performs its action only in conjunction with other thickeners (generally acrylic based). Increases printing paste viscosity and changes its rheology (reducing pseudo-plastic behaviour and sensitivity to shear forces). Mainly used for fine outlines, its action is more effective on synthetic fibre fabrics.

PRINTOFIN SUPRA

Rheology modifier. It is recommended to improve sharpness and definition, to increase viscosity of printing pastes, to reduce penetration and improve levelness and colour yield.

THICKENER E

Thickener for increasing viscosity, reducing penetration and improving colour yield and definition. Mainly used in solvent-free systems on light fabrics.

THICKENER SF N

Rheology modifier and extremely highly effective thickener. Used to increase the viscosity of ready printing paste, fully salified (does not requires addition of ammonia).

MULTI-FUNCTIONAL AUXILIARIES

PACK PRINT

Multi-functional compound which includes the majority of auxiliary products contained in the printing paste, reducing the number of products to be used. Improves colour yield and definition on cotton and on synthetic fabrics, increases electrolyte stability, improves fastness.

PACK PRINT NFI

Formaldehyde-free multi-functional compound which includes the majority of components contained in the printing paste, reducing the number of products to be used. Improves colour yield and definition on cotton and on synthetic fabrics, increases electrolyte stability, improves fastness.

AUXILIARIES

DETERGENT BS

Detergent for removing printing paste residues. Low aggressive solvent, high efficiency and quick cleaning action, suitable for printing belts, squeegees (by immersion or brushing) and on padding- and curing- machines.

Ionic character: Anionic

DEVOPRINT B

Excellent acidity generator for burn-out printing. The particular chemical features of this product enable to get an excellent destruction of cellulosic fibres which are quickly eliminated in washing process.

Ionic character: Anionic

DISPERSANT P

Highly effective dispersing agent. Easily soluble in water, prevents pigment agglomeration and maintains them in stable and very fine dispersion during the whole printing process. Indicated for automatic colour kitchens to avoid sedimentations in tanks and valves.

Ionic character: Non ionic - Slightly Cationic

HYDROPHIL M

High efficiency wetting agent for printing. Suitable for double-sided printing and when a high penetration of printing paste is required. Often used in conjunction with Emulsifier DF.

Ionic character: Anionic

MINERGLUE 92

MINERGLUE RP

Adhesive in liquid form for screen and rotary printing. Soluble product, easy to remove during washing.

Ionic character: Non ionic

OXITON S P

Printing auxiliary that can be used as bottom protection in corrosion printing or added to printing pastes that contain reactive dyes in order to avoid any possibility of reduction.

WHITES & WHITE PASTES

WHITE 24

Ready-to-use white printing paste, soft handle, not elastic, recommended for continuous printing.

WHITE 24049

High concentration white pigment dispersion, for preparation of printing pastes or as white pigment.

WHITE 45 I

Ready-to-use white printing paste, mostly suitable for printing on dyed grounds thanks to its good covering effect and high white degree. The formulation and the fine dispersion degree gives excellent runnability on flat bad and rotary machines. On white and light shade dyed grounds, WHITE 45 I can be reduced with pigment printing paste in any ratio maintaining good covering effect and white degree. Rubbing and washing fastness are excellent. Suitable for screen printing.

WHITE 51

Stabilized aqueous dispersion of titanium dioxide, with high colour yield.

WHITE 60

Stabilized aqueous dispersion of titanium dioxide, with high colour yield.

WHITE ACT

Ready-to-use white printing pastes with good covering effect. On white and light shade substrates, can be reduced with pigment printing paste in any ratio maintaining good covering effect and white degree. In case of need, rubbing fastness and handle can be improved by adding 30-50g/kg Finish S.

WHITE CBI

Ready-to-use white printing pastes with good covering effect. On white and light shade substrates, can be reduced with pigment printing paste in any ratio maintaining good covering effect and white degree. In case of need, rubbing fastness and handle can be improved by adding 30-50g/kg Finish S.

WHITE EGN

Stabilized aqueous dispersion of titanium dioxide, with high colour yield.

WHITE FM

Stabilized aqueous dispersion of titanium dioxide, with high colour yield.

WHITE LT

Ready-to-use, low viscosity (3000/3500 cps) white printing paste. Easy to stock in tanks, suitable for automatic colour kitchens, easy handling. To be used 100 to 500 g/kg with standard printing paste, accordingly to desired effects.

WHITE NFO

Formaldehyde-free white for continuous printing, with excellent covering property and soft handle.

WHITE PFN

Ready-to-use printing paste based on dispersion of titanium dioxide and natural protein. Can be combined with acid and reactive dyestuff printing, on natural and cellulosic fibres, for "half shade" effect.

WHITE SBN

Ready-to-use white emulsion, white spirit-free, for screen printing. Major characteristic is the capability to cure very quickly, starting at low temperature (120° C are sufficient to reach sufficient fastness level).

WHITE SCI

Ready-to-use white printing paste with exceptional covering effect. On white and light shade substrates, can be reduced with pigment printing paste in any ratio maintaining good covering effect and white degree. Rubbing and washing fastness are excellent.

SOFT WHITE C

Ready-to-use white printing paste. Thanks to an accurate selection and formulation of binders, Soft White C allows excellent white effect on woven and knitted fabrics with soft and plastic handle. Good washing and rubbing fastness. Wet rubbing is approximately half note lower than WHITE 45 I. Suitable for continuous and screen printing.

READY-TO-USE PRINTING PASTES & SPECIAL EFFECTS

Products for pearlescent effects

PERLAMIN RANGE

Perlamin is a range of ready-to-use printing pastes for brilliant pearlescent effects. Rubbing and washing fastness are good. Suggested flat screens of 55 yarns/cm and rotary screens of 125 mesh Penta.

PERLAMIN COPPER MA

Ready-to-use printing paste for non-metallic pearlescent Copper effects. Suitable for 77 yarns/cm screens.

PERLAMIN GOLD R

Ready-to-use printing paste for non-metallic pearlescent Gold effects.

PERLAMIN MA

Ready-to-use printing paste for non-metallic pearlescent Silver effects.

PERLAMIN MT

Ready-to-use printing paste for neutral pearlescent effects. Can be added by Minerprint pigments for coloured pearlescent effects.

PERLAMIN RP

Ready-to-use printing paste for pearlescent neutral and coloured effect.

PERLAMIN SPACE

Printing pastes for iridescent effects. It's possible to add the Minerprint pigments to the PERLAMIN SPACE (max quantity to add 0,5%-2%) to improve the iridescent and pearlescent fashion effects. PERLAMIN SPACE series has excellent dry & wet rub and wash fastness properties. Prints must be cured at 150°C for 3 minutes. The products can be applied as a normal screen printing pastes, using screens with maximum 55yarns/cm.

PERLAMIN SPACE range consists of:

PERLAMIN SPACE YELLOW

PERLAMIN SPACE VIOLET

PERLAMIN SPACE TURQUOISE.

Products for flock printing

BINDER FLOCK E

Acrylic resin used as adhesive component for the electrostatic flock printing. It is recommended to add FIXATOR LF to obtain best final fastness results. It features good penetration and adhesion properties, it gives a sufficiently soft handle and good rub and wash fastness which are obtained by curing the fabric at 150°C for 3 minutes after complete drying.

PASTE FLOCK NFO

Ready-to-use printing paste, used as adhesive component in flock printing. Good penetration and adhesion, soft final handle and good rubbing and washing fastness. Does not require addition of fixing agents.

Products for seersucker effects

BINDER CREPON S

Ready-to-use printing paste for "seersucker" or "craquelé" effects. It reserves from caustic soda. Pigments can be added to the product for coloured effects. To maximize effect the cotton must not be treated with caustic soda.

Products for phosphorescent effects

MINERLUX NEW I

Ready-to-use printing paste for phosphorescent effects. Based on polyurethanic resin, it is almost colourless. After absorption of energy from light, Minerlux New I release it in dark for several minutes. If coloured phosphorescent effect is needed, an addition of 8-10 g/kg fluorescent Minerprint pigments is suggested. Suitable for white substrates, as it has no covering effect.



Products for metallic effects

ALUMINIUM PASTE

Aluminium non-dusty powder for silver metallic effects, must be added to Gold Binder NTI/NFO under slow stirring. Print with Aluminium Paste must be cured as normal pigments.

BRONZE POWDER E 900

Bronze powder for gold metallic effect, must be added to Gold Binder NTI/NFO under slow stirring. Prints with BRONZE POWDER E 900 must be cured as normal pigments.

DIAMOND GM

Ready-to-use printing paste that allows to achieve neutral-coloured pearlescent effects, or adding a small amounts (5-10 g/Kg) of Minerprints to obtain pearlescent coloured effects. Print effects are sharp, brilliant with good dry & wet rub and wash fastness properties. It's metallic powders-free and by consequence environmentally friendly. Prints must be cured at 150°C for 3 minutes on dried fabric.

GOLD GM

Ready-to-use printing paste that allows to achieve brilliant gold effects. Print effects are sharp, brilliant with good dry & wet rub and wash fastness properties. It's metallic powders-free and by consequence environmentally friendly. Prints must be cured at 150°C for 3 minutes on dried fabric.

GOLD BINDER NFO

Solvent-free ready-to-use printing paste, to be added by metallic powders for metallic effects. Gold Binder NFO gives brilliant printings and preserves metals from oxidation.

GOLD BINDER NTI

Solvent-free ready-to-use printing paste, to be added by metallic powders for metallic effects. Highest stability to hot working temperatures, therefore recommended for hot climate Countries.

PASTE GLT

Ready-to-use printing paste, specific for glitter printing with flat and rotary screen.

RICH BRONZE PASTE

Bronze non-dusty powder for gold metallic effects, must be added to Gold Binder NTI/NFO under slow stirring. Prints with Bronze Rich Paste must be cured as normal pigments.

Products for glossy effects

GLOSS PASTE

Ready-to-use polyurethanic based printing paste for glossy effects on cotton or cotton blends. Prints are very elastic and fast. On white or pale shade substrates Gloss Paste can be coloured with Minerprint pigments. For very glossy and relief effects, it is recommend the use of 18-21 yarns/cm printing screens or 40 mesh rotary screens.

SUPERGLOSS M

Ready-to-use polyurethanic based printing paste for glossy effects on cotton or cotton blends. Prints are very elastic and fast. On white or pale shade substrates Gloss Paste can be coloured with Minerprint pigments. For very glossy and relief effects, it is recommend the use of 18-21 yarns/cm printing screens or 40 mesh rotary screens.

Products for discharge printing

DISCHARGE CLEAR

Blend of natural and synthetic thickeners, used in pigment discharge printing with Reducing Agent Z. The product contains white spirit. Printed goods can be steamed later, even one day if temperature and humidity are not extremely high, maintaining a high levelness.

REDUCING AGENT ECO

Stable, odourless reducing agent in white cristalline powder form. Non dusty and formaldehyde-free. Performs its reductive activity in alkaline conditions and over 70°C.

REDUCING AGENT Z

Powder auxilliary with strong reducing action, suitable for pigment discharge printing (white and coloured).

SOFT DISCHARGE

Ready-to-use printing paste for discharge printing. To be used together with Reducing Agent Z, gives good fastness to coloured discharge printings. Suitable in continuous and in screen printing.

Products for similar-to-discharge effects

BRILLIANT LACQUER NT

Ready-to-use high covering lacquer. Suitable for deep and brilliant coloured effects on dyed substrates. Suitable for similar to discharge printing effects.

LACQUER GB

Ready-to-use high covering lacquer. Good wetting action and consequently good runnability with a minimum colour pick-up on cylinders or screens. No clogging will occur if printing machines are stopped for a brief breakdown. Suitable for similar-to-discharge printing effects.

SOFT LACQUER NFI

Ready-to-use printing paste, used to obtain deep colour effects on dyed fabrics (discharge imitation). It features a good covering power, good colour yield and tone brightness. Clear and well defined outline effects as well as a good dye penetration can be also obtained on knitted fabrics. Printings have a soft and good-feel handle.

Products for 3-dimensional effects (puff)

MINERFOAM BI

Ready-to-use printing paste for three-dimensional effects. Suitable for cellulosic and synthetic fibres. Good rubbing fastness, can be added by Minerprint pigments for coloured 3D effects. Stable to high temperatures, does not show any yellowing, suitable for printing around burn-out effect. Foam development starts at 120°C during drying; cure at 150°C for 3 minutes. Do not exceed recommended temperatures and times.

MINERFOAM FL

Ready-to-use printing paste for three-dimensional effects. Suitable on rotary and flat-bed printing machines. Minerfoam FL provides a very nice and soft velvet 3D effect, similar to "flock printing". Good washing and dry cleaning fastness, can be added by Minerprint pigments for coloured 3D effects. Printings must be cured at 150°C for 3 min after drying.

MINERFOAM NFO

Ready-to-use printing paste for three-dimensional effects with high temperature lifting. Suitable for rotary and flat-bed printing machines. Thanks to its high temperature activation allows higher reliability and reproducibility of 3D effects, the adhesion to the fabric is very high and with shiny effect. Cure at 160°C for 2 min.

MINERFOAM SR SPEC

Ready-to-use printing paste for three-dimensional effects. Suitable for cellulosic fibres. Good rubbing fastness, can be added by Minerprint pigments for coloured 3D effects. Stable to high temperatures, does not show any yellowing, suitable for printing around burn-out effect. Lifting starts already at 120°C during drying; cure at 150°C for 3 minutes. Do not exceed recommended temperatures and times.

Products for photocromatic effects

MINERCROMIK RED

Ready-to-use highly concentrated printing pastes to get effects that are visible only if exposed under the sunlight. Very soft touch and good general fastness.

MINERCROMIK YELLOW

Ready-to-use highly concentrated printing pastes to get effects that are visible only if exposed under the sunlight. Very soft touch and good general fastness.

MINERCROMIK SKY BLUE

Ready-to-use highly concentrated printing pastes to get effects that are visible only if exposed under the sunlight. Very soft touch and good general fastness.

Products for sparkling effects

MINERSTAR RANGE

Ready-to-use printing pastes for brilliant, similar-to-metallic sparkling effect. 40 mesh screens can be used both for flatbed and rotary printing.

Minerstar range is composed by:

MINERSTAR GOLD
MINERSTAR SILVER
MINERSTAR BRONZE
MINERSTAR VIOLET
MINERSTAR TURQUOISE

MINERSTAR COVERING RANGE

Ready-to-use print pastes for sparkling effects, with a high covering properties. Can be achieved brilliant and sharp effects. Fine mesh screens can be used both for flatbed (55 mesh) and rotary printing (40 mesh). The special formulation and a proper selection of binders allow to obtain good dry&wet rub as well as wash fastness properties.

MINERSTAR COVERING range includes the following colours:

MINERSTAR COVERING SILVER
MINERSTAR COVERING GOLD
MINERSTAR COVERING BRONZE
MINERSTAR COVERING VIOLET

MINERSTAR NEUTRAL I

Necessary for reductions of Minerstar colours, maintaining high printability and fastness.

Beside Minerstar, Achitex Minerva offers these products for the traditional flitter printing:

BINDER FLITTER

Ready-to use printing paste for glitter printing. Its high content of polyurethanic high transparency binders allows the incorporation of glitter without negative effects on brilliancy. Maximum quantity of glitters is around 250-300 g/kg depending on glitter size. The product itself is suitable for 10-12 yarns/cm flat bed screens and 40 mesh special rotary screens.

REFLEX CLEAR REFLEX GREY

Ready-to-use printing paste suitable for both rotary and screen printing to achieve reflective effects on cotton or mixed fabrics, coloured or dark. To print on technical synthetic fabrics the CATALYST AT5 should be added to improve adhesion. REFLEX CLEAR can be pigmented up to 3% Minerprint Pigments.

Products for elastic effects

ELASTIL RANGE

Elastil is a range of water-based, PVC- and, ready-to-use printing pastes for elastic effect on knitted fabrics. Rubbing and washing fastness are very good.

COVERING AGENT ELASTIL FG

Ready-to-use printing paste, high covering effect for printing on dark grounds.

TRANSPARENT ELASTIL FGI

Ready-to-use printing paste for printing on white and pale colour grounds.

WHITE ELASTIL FG

Ready-to-use printing paste, high covering effect, bright white degree for white elastic effects.

RUBBER CLEAR ND

Ready-to-use printing transparent base, with superior printability features; it is suitable for use with up to 5% Minerprint Pigments. Ideal to achieve bright colours on light substrates or in overprint to RUBBER WHITE ND, very elastic with no tacking and with excellent washing and rubbing fastness.

RUBBER WHITE ND

Ready-to-use white printing paste, with superior printability and coverage features; it has been designed to give very elastic and soft print with no tacking, with excellent washing and rubbing fastness.

Products for pigment printing in coupling with dyes

BLACK SILK OUTLINE

Ready-to-use black printing paste for high definition printing with acid dyestuffs and for outlines.

PASTE DARK

Ready-to-use printing paste used to obtain an increase in dyeing yield, creating a tone-on-tone effect. Where the product is printed, more intense tones are obtained than the dyed background. It is possible to cut the product with small percentages of water (max 20%), in order to reduce the darkening effect and thus obtain different shades of dyeing. The product does not change the hand of the substrate in any way and is therefore recommended for printing on 100% cotton, or other cellulose fibres in general. Compatible with most acid dyes, it can be used on wool and silk.

PASTE BICOLORED

Ready-to-use printing paste, for special wash-off effect combining pigments and reactive dyestuffs.

PASTA DELAVE

This product was developed to obtain vintage effects after washing. It provides a soft handle and can be used as a traditional printing paste. After washing it strips part of the dye which results in ageing effects and half-shades.

RESIN A

Resin for on-tone dyeing of cotton by using direct or reactive dyes. Where printed, colour yield of dyeing will appear lighter.

RESIN RD

Resin for on-tone dyeing of cotton by using direct or reactive dyes. Where printed, colour yield of dyeing will appear darker.

RESIN M NEW

Melamine resin with used in the reserve printing of fabrics that will subsequently be subjected to a dyeing process with direct or reactive dyes. The product prevents the prints from being influenced by the dye during the dyeing phase.

Products for leather

BASE COROLAN

Ready-to-use printing paste, for prints on leather with anilin dyes.

Additional products for special effects

MINERBOND RPF

Ready-to-use thermoplastic glue with very good adhesive power, used to transfer metal films on all fabrics. The product can be applied as a normal printing paste, using rotary screens (maximum 80mesh). It gives a very nice soft handle, printing sharpness and foil detaching, and a very good fastness to domestic washing. The printed fabrics must be dried and cured at 80-90°C and the transfer must be carried out at a temperature of 160°C for 15-40 seconds.



TRANSPARENT FDE

Ready-to-use printing paste for similar-to-burn-out effect, thanks to its high transparency. Can be applied on different types of fabric, such as polyester, acetate, polyamide, silk; the effect is highly reduced when the product is printed on cellulosic fabric. Soft touch and good fastness can be achieved.

Auxiliaries for pigment pad-dyeing

BINDER PADDING FM N

Acrylic polymers emulsion, containing softeners and crosslinkers. Used in pigment pad dyeing process, as it does not build up on the pad rollers and long runs can be carried. Shades have very good rubbing and washing fastness.

BINDER PADDING NFO

Emulsion for pigment pad dyeing. It does not build up on the pad rollers and long runs can be carried. Dyeing have very good rubbing and washing fastness.

SINERGIL BT N

Anti-migrating and wetting agent for pigment pad dyeing. Gives brilliant and uniform shades and soft final handle.

SINERGIL N 30

Anti-migrating and wetting agent for pigment pad dyeing. Gives brilliant, darker and uniform shades and soft final handle.

SCREEN PRINTING

PRODUCTS FOR DISCHARGE PRINTING

Fpw range for ecologic discharge

BASE FPW

Transparent paste for background discharge printing, can be added up to 4% of Minerprint pigments for dark shades. This product is suitable for formaldehyde-free printing without the necessity of washing. For activation, add 6% of Reducing Agent ECO.

DISCHARGE FPW

Neutral paste for discharge printing for very bright and uniform prints, with a good colour yield. The product must be activated with Reducing Agent ECO. Prints do not release formaldehyde, this enabling to fulfill most exigent requirements. For best results in colour brightness and handle, Reducing Agent ECO must be dissolved very well and curing must be carried out at a temperature of 170-180°C for 3 minutes.

WHITE FPW NO

White paste for ecologic discharge printing, with high covering effect and soft handle. Can be used as final white and as bottom white. This product suitable for formaldehyde-free printing without the necessity of washing. For activation, add 6% of Reducing Agent ECO.

DISCHARGE BASE ECO

Used in discharge printing as background. For dark shades, must be pigmented with 4% of pigment Minerprint. Discharge Base ECO is suitable for formaldehyde-free printing without the necessity of washing. For activation, add 6% of Reducing Agent ECO.

DISCHARGE ECO

Neutral paste for discharge printing, gives very bright, uniform and good color yield results. Must be activated with 3-6% Reducing Agent ECO. For a soft handle and color brilliance, Reducing Agent ECO must be dissolved very well and the polymerization must be carried out at a temperature of 170°-180° for about three minutes.

REDUCING AGENT ECO

Activator for discharge printing, formaldehyde-free.

Products for traditional discharge

DISCHARGE DVT

Ready-to-use paste for discharge printing based on decolorina, suitable for application by thermofixation, or by steaming with saturated steam followed by curing. Very brilliant prints, with good colours yield and good dry&wet rub and wash fastness properties. For activation, add Reducing Agent Z.

DISCHARGE WHITE SR

Ready-to-use white printing paste for discharge printing, with very high covering effect and very soft final handle. Can be printed with very fine screens thanks to its high runnability, and gives a very high white degree on fabrics. Discharge White SR need to be activated by addition of 5% of Reducing Agent Z (reduces the possibility of smell formation during processing and on finished garment). Discharge and fixation by curing at 150°C for 3 minutes.

SOFT DISCHARGE

Ready-to-use printing paste for discharge printing. Needs the only addition of Reducing Agent Z (5-10%), it is very stable and gives good fastness in coloured discharge printing, together with a soft final handle.

PRODUCTS FOR ELASTIC PRINTING

“SR 301” range

COVERING AGENT SR 301

Ready-to-use elastic printing paste, water-based, PVC- and phthalate-free. Very high covering effect, very high elasticity, smooth handle and excellent runnability. For coloured effects can be added by Minerprint pigments, maintaining a very high brilliancy.

TRANSPARENT SRI 301

Ready-to-use transparent printing paste, water-based, PVC- and phthalate-free. Very high transparency, if added with Minerprint pigments maintains a very high brilliancy. High elasticity, smooth handle and excellent runnability.

WHITE SR 301 T

Highly elastic ready-to-use white printing paste ideal for printing on elastic coloured cotton or mixed fabrics. A tacking free print with Plastisol effect can be achieved, with excellent dry and wet washing and rubbing fastness.

“SR ND” range

COVERING AGENT SR ND

Ready-to-use water-based printing paste, PVC-, phthalate-, lead- and formaldehyde-free with high covering, elastic effect and an excellent and superior runnability in screen printing. For coloured effects it can be added by Minerprint pigments, maintaining a very high brilliancy. Final handle is very soft and very elastic. Suitable for fine screens (90-100 yarns/cm). The product has the capability to restart printing even after long stops in production, having an extremely reduced tendency to dry into screens. Could be considered as a “water-based Plastisol”.

TRANSPARENT SR ND

Ready-to-use transparent printing paste with high elasticity and superior runnability in screen printing. For coloured effects it can be added by Minerprint pigments, maintaining a very high brilliancy. Final handle is very soft and very elastic, suitable for fine screens. The product is water-based, PVC- and phthalate-free, lead- and formaldehyde-free, and shows the capability to restart printing even after long stops in production, having an extremely reduced tendency to dry into screens. Could be considered as a “water-based Plastisol”.

WHITE SR ND

Ready-to-use white printing paste, with an excellent and superior runnability in screen printing. The product is water-based, PVC- and phthalate-free, lead- and formaldehyde-free, and shows the capability to restart printing even after long stops in production, having an extremely reduced tendency to dry into screens. It has to be considered as a “water-based Plastisol”, printing screens can be easily washed with water only even after many hours of usage. White SR ND is very elastic, has very high coverage, very low tacking, and can be printed with very fine screens, maintaining the typical soft handle of water-based products.

WHITE SR ND EXTRA

New formulation of WHITE SR ND, which ensures the same printability performance of the standard product but gives a smoother handle and higher elasticity with a remarkable improvement of the covering power.

WHITE SR ND PLUS

Ready-to-use white printing paste with very good elasticity which can be used both as a white base and final layer. Thanks to its very good printability, highly defined prints with no tacking can be achieved, with excellent rubbing and washing fastness.

COVERING AGENT SR ND PLUS

Ready-to-use printing covering paste, suitable for use with Minerprint Pigments to achieve prints with very intense colours and an opaque finish, with very good elasticity and no tacking. The product can be used even after long machine stops.

TRANSPARENT SR ND PLUS

Ready-to-use transparent printing base, suitable for use with Minerprint Pigments to achieve prints with very intense colours, with very good elasticity and no tacking. The product can be used even after long machine stops.

Elastil range

BACKGROUND ELASTIC

Ready-to-use screen printing paste, mainly used as a “ground” between fabrics and other ready-made products, which should be overprinted in the same area wet on dry. Has slightly elastic properties, therefore it is suggested to improve elasticity, handle and levelness of many covering products like whites and lacquers.

COVERING AGENT ELASTIL FG

Ready-to-use water-based, PVC- and phthalate-free printing paste, with very high covering effect on dark substrates and high elasticity. For coloured effects, it can be added by Minerprint pigments maintaining a high brilliancy of the shades. Very good rubbing and washing fastness.

EMULSION SR KF

Soft printing base paste for dark shades printing, as it can be added by 7% of Minerprint pigments. Mostly suggested on substrates with a high rest of impurities, where traditional base pastes show low fastness level.

TRANSPARENT ELASTIL FGI

Ready-to-use water-based, PVC- and phthalate-free printing paste, very neutral and transparent and high elasticity. For coloured effects, can be added by Minerprint pigments maintaining a high brilliancy of the shades. Very good rubbing and washing fastness.

WHITE ELASTIC EXTRA

Ready-to-use white, elastic printing paste for screen application.

WHITE ELASTIL FG

Ready-to-use water-based white printing paste for white, covering, elastic effects. It does not contain any PVC and any phthalate. Very good rubbing and washing fastness. Extremely high, pure and bright white.

WHITE SR KF

Ready-to-use white printing paste, with excellent coverage and elasticity. Final handle is soft but with “dry feeling”. The product is able to inhibit Mylar foils heat transfer. After dilution, it can be applied even by spraying for garment applications.

PRODUCTS FOR LOW TEMPERATURE CURING

WHITE 110

Ready-to-use printing white, soft elastic handle with low curing temperature.

CATALYST AT5

Crosslinking agent for pigment printing pastes either containing Acrylic binders or PU binders like Soft Paste AT5; improves wet fastness. Specifically developed for the application on synthetic fabrics and PVC.

COVERING AGENT 110

Ready-to-use printing paste that completely cure at 110°C. It has been mainly developed to obtain prints with a high level of coverage on coloured backgrounds like cotton and synthetic fabrics. It has good general fastness and a soft touch. It's a foil off product.

SOFT PASTE 110

Ready-to-use paste with soft handle and low curing temperature.

SOFT PASTE AT5

Neutral ready-to-use printing paste, water-based, mainly suggested to be printed on natural fabric, synthetic fabrics, PVC and Vynil; complete fixation at low temperatures (130°C) or even at room temperature with the addition of Catalyst AT5.

ADDITIONAL PRODUCTS FOR SCREEN PRINTING

COVERING AGENT E

Ready-to-use white printing paste, that could be also pigmented. Very good covering power which makes it suitable for prints on coloured backgrounds. The obtained prints have a good general fastness properties, a good yield and colour brightness. Prints must be cured at 150°C for 3 minutes on dried fabric.



GREY BLOCK WB

Water-base product developed to be used as a background print on all the synthetic and natural supports where problems of dye migration on the fabric is present. The products give a guarantee of a barrier effect that block sublimation and prevent the dye to alter the overprinted colours.

LACQUER SH

Ready-to-use paste suitable to obtain very covering printing effects on dyed ground fabrics. It can be used as it is or with addition of Minerprint range pigments (4% max).

LUBRILAC FAST

Fluidifying agent for plastisol. It allows to reduce the viscosity of the PLAST series products reducing the curing temperature to a minimum of 130°C. It improves wet-on-wet printability. It can be added until a max. of 6% to all PLAST products: higher quantity could affect washing fastness properties.

MINERBOND METAL M

Ready-to-use printing paste for metal foil application, that gives a very soft handle printing, and it is normally suitable for printing either cellulose fibres and its blends. It can be printed by flatbed printing machine.

MINERBOND SPF

Ready-to-use thermoplastic glue with very good adhesive power, used to transfer metal films on all fabrics. The product can be applied as a normal screen printing paste, using screens (maximum 55yarns/cm). It gives a very nice soft handle, printing sharpness and foil detaching, and a very good fastness to domestic washing. The printed fabrics must be dried and cured at 80-140°C and the transfer must be carried out at a temperature of 160°C for 15-40 seconds.

MINERCLEAR PROCESS AF

Ready-to-use printing paste, designed for the creation of four-color designs. It allows to obtain very defined designs distinguished by the excellent colour brilliance. The product is highly printable even wet on wet. It is not contaminated by Mylar laminae.

MINERGLUE SR 1

Ready-to-use permanent water based sticker for screen printing tables, both for natural and blends fibres. This product is recommended for use with FLASH IR lamps, for intermediate drying, it can also be utilized on heavy fabrics and sweatshirts. It is washable with water for the cleaning of fabric residues.

FOIL RELEASE

Ready-to-use printing paste perfect for screen printing, studied as over printing on last position as protective agent to avoid the tacking of Mylar foil or flock transfer. The high transparency allows you to apply an invisible film that will protect the underlying colours in order to obtain elastic prints rich in special effects (given by Mylar foils).

PASTE FAST

Ready-to-use printing paste of new conception and high quality, developed to obtain high general fastness, very soft hand, high colour yield and brilliant on most of the fibres (natural, synthetic and blends). Solvent-free. It can be printed both with flat and rotary machine.

SOFT PASTE NFO

Ready-to-use print paste, containing soft binders. The product enables to obtain articles with a very low release of formaldehyde and allow to meet the requirements of most stringent standards. It must be only added of the necessary amount of Minerprint pigment. Very soft prints, with good colour yield and brightness are obtained both on cotton and synthetic fabrics. After drying, prints must be cured with hot air at 150°C for 3 minutes.

NEUTRAL PASTE MI

Ready-to-use printing paste, soft touch printing paste, ideal for CYMK printing, excellent rubbing and washing fastness. Foil off product.

PASTE WST S SOFT

Ready-to-use printing paste, for very soft and brilliant print outs. Very good fastness to rubbing and washing, high runnability. It only needs to be added with the desired amount of Minerprint pigments.

PLASTISOL RESIN

Very transparent liquid resin, designed to be added to all the products of the PLAST series, both to lower its viscosity and to decrease polymerization times and temperatures.

SOFT PASTE CMX

Ready-to-use printing paste, extra soft handle and high colour yield.

SOFT PASTE NS

Ready-to-use printing paste, solvent-free.

SUBLIPRIMER L LIQ

Product for the treatment of cellulosic fabrics prior to the sublimation transfer process. The product can be applied as it is both by spray on garments and by padding: any cut would indeed compromise the final result and fastness properties. After application it is necessary to dry the product at 100°C for 3 minutes; afterwards the transfer of printing paper with sublimation (disperse) dyes can be carried out by referring to times and methods related to the sublimation transfer process on polyester (190°C for 30 seconds).

TRANSPARENT CRACKING SR

Ready-to-use printing paste for "manual cracking-effect", if added with Minerprint pigments gives brilliant and glossy colour effects. It is usually printed on top of a first layer of Cracking White SR to have a better effect. Very high runnability, suitable for very fine screens.

WHITE CRACKING SR

Ready-to-use printing paste for white "manual cracking-effect". Handle of the printed goods is extremely rigid and dry to improve the effect. Cracking White SR has a very high covering effect and excellent runnability, it is suggested the use of open screens to allow the highest deposit of product on the fabric and consequently higher cracking-effect.

PLASTISOL RANGE

PLAST BASE EL

Plastisol base for 3D printing with smoothed effect, phthalate-free. Typical use is "lens effect", thanks to its extremely high transparency.

PLAST BASE G

Plastisol base for glitter printing or for final glossy effect, phthalate-free. Extremely transparent, suitable also for 3D printing with fine screens.

PLAST BASE HT

Plastisol base for 3D printing with squared effect, phthalate-free. Extremely transparent and suitable for fine screens.

PLAST BASE TR

Plastisol transparent base, to be used as adhesive for transfer, phthalate-free. Print-outs with Plast Base TR will be extremely soft and elastic with high resistance to washing. Can be used added to Plast colour range to give them the capability of transfer foils.

PLAST WHITE AG

Plastisol covering white with soft handle, phthalate-free, can be used as bottom white and as final white. High runnability, can be used with very fine screens (till 100/120 yarns/cm) that give to the product a similar-to-water-based white effect. Very quick in flash drying.

PLAST WHITE EL

Plastisol elastic white, phthalate-free. Mostly indicated for elastic substrates, has a high runnability and dry very quickly under flash.

PLAST WHITE LF

Plastisol low-fusion (130°C) white, phthalate-free, suitable for bottom white and for final white. Extremely covering and very quick in flash drying, mostly indicated for printing with multiple flashing between screens because of its highly reduced influence on overprinted pastes.

PLAST LUBRILAC

Phthalate free thinner, used to reduce the viscosity of all lines PLAST.

NEUTRAL PLAST

Plastisol transparent base, phthalate-free, to be used as reduction with Plast colour ranges. Mostly suggested as reduction for process colours Plast PK, as it does not change the viscosity of colours and maintains the original design effect.

PLAST BLOCK GREY

Plastisol developed to be used as ground on synthetic fabrics or whenever sublimation/migration occurs. The particular formulation of this product ensures a barrier effect, avoiding the migration of the fabric dye which – if subject to heat-could contaminate the overprint colour. The product can be overprinted with PLAST range products; it can be also used in transfer printing.

PLAST CATALYST

Special catalyst for the PLAST range. Adhesion of PLAST range products on particular fabrics can be improved by adding PLAST CATALYST (5% max) or whenever after-printing treatments are requested (e.g. final dyeing or stone washing). The product can be also used to reduce standard cure times and temperature from 160° to 130° min. The product added with Plast Catalyst has a pot-life of about 10 hours.

PLAST COVERING

Plastisol covering base to be used as reduction paste, phthalate-free. Can be used for reducing viscosity of Plast colour ranges without affecting the covering effect. 20% of Covering Plast in Plast colour range increases covering effect. Can be used also as a softener, giving to printed shades a “water-effect”.

PLAST ECOWHITE

Plastisol high covering white, phthalate-free, can be used as bottom white and as final white. Very quick in flash drying, mostly suggested for fleece.

PLAST DROP

Plastisol base for improving elasticity and reducing curing time to 130°C, phthalate-free. Extremely transparent and with high binder content.

PLAST MATT

Plastisol base for increasing matt effects, phthalate-free. To be used as reduction of Plast colour ranges.

PLAST WHITE FLASH

White plastisol, extremely rapid drying under lights flash; excellent covering and good hand and flexibility.

PLASTFOAM

Plastisol foaming base for 3D effects, phthalate-free. Must be added to Plast colour ranges, giving to puff effects a very closed and defined effect. Suitable for being printed together with transfer products.

PLAST COLOURS

Plastisol semi-covering colours, phthalate-free, suitable for wet-on-wet printing with gloss effect. Plast colour range is supplied with a colour system for pantone colour matching.

PLAST FLUO COLOURS

Plastisol fluorescent colours, extremely brilliant and covering, phthalate-free. The range is made by the following fluorescent colours: Yellow, Orange, Red, Pink, Green, Blue.

PLAST PK COLOURS

Plastisol process colour range, phthalate-free. Highly concentrated, can be reduced by NEUTRAL PLAST.

METALLIC PLAST

Plastisol colours with metallic effect, phthalate-free. Available in Silver, Gold and Pearl. Extremely brilliant effect, similar to transfer foil printing.

THINNER

Solvent-based diluent used to reduce the viscosity of all product lines PLAST.

COLOR MATCHING SYSTEM

MINERMIX

Ready-to-use pigments series developed for the Color Matching System, to be used in combination with TRANSPARENT SR ND and WHITE SR ND. Like all the SR ND, also this series has excellent printability. The MINERMIX system is available on the Achitex Minerva website and allows to get all the formulas, Uncoated and Coated, quickly and easily.

SILICONES

MINERSIL BLACK / BLUE / RED / YELLOW

Concentrated pigment dispersion in silicone, to be used up to 4% in all MINERSIL products, a higher percentage can cause unevenness problems.

MINERSIL BLOCK GREY A

Silicon base product developed to be used as a background print on all the synthetic and natural supports where problems of dye migration on the fabric is present. The products give a guarantee of a barrier effect that block sublimation and prevent the dye to alter the overprinted colours.

MINERSIL CAT B

Catalyst for the Minersil siliconic pastes range, to be mixed in ratio 1:1 with the product needed. Catalysed products can be cured at low temperature (100°C) and have a pot-life of 24 hours.

MINERSIL COVERING AGENT A

Silicon matt covering agent extremely elastic. It is suggested for printing on any elastic substrate. It can be used as it is or with addition of Minerprint range pigments (8% max).

MINERSIL FOAM

Siliconic foaming base for 3D effects (puff) and for increasing opacity (matt effect) of any other product of the Minersil range, PVC-free. 3D effects are extremely elastic and closed. To be ready-to-print, MINERSIL FOAM must be catalysed with MINERSIL CAT B in ratio 1:1.

MINERSIL TR A

Siliconic transparent base, specifically suggested for 3 dimensional, PVC-free gloss effects. Extremely transparent and elastic, and with a long pot-life (when catalysed) sufficient to print for one whole working shift. To be ready-to-print, MINERSIL TR A must be catalysed with MINERSIL CAT B in ratio 1:1.

MINERSIL WHITE A

Siliconic white base, PVC-free, suitable for bottom white and for final white. Extremely covering and elastic, it is suggested for printing on any elastic substrate.

MINERSIL FLUO (SERIES)

Formaldehyde-free fluorescent dye dispersions in silicon resin. The range includes the following colours: YELLOW FLUO, RED FLUO, GREEN FLUO, PINK FLUO, ORANGE FLUO, which are totally compatible with MINERSIL range products. To avoid dirt problems it is recommended not to exceed 10% dosage.



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