

LECHSYS EFFECT

DESCRIPTION

Versatile tintometric system composed of TINTERS with high pigment concentration and a series of RESINS (BINDERS) allowing you to obtain MATT BASECOATS, TOPCOATS and PRIMERS needed to meet any request of the industrial sectors in metallic, pearl, solid, fluo and xyrallic colours in one coat and two-coat systems.

BINDERS

The BINDERS are available in pre-dosed cans to enable fast production of the finished products: this will allow the distributor/manufacturer using the colour formulations from the SW Lechler MAP® to dose into the can containing the resin the required tinters, avoiding handling large quantities of materials and reducing to the minimum production time as well as minimising the disposal of empty cans; at the same time the original lithographed can, with dedicated label (printable via SW), can be delivered to the user, completed with technical instructions.

29920 MULTI PLAST PRIMER (Two-pack adherence primer for direct adhesion on plastics)

29902 2K HIGH MATT BASE (Two-pack basecoat with direct adhesion on ABS, PC/ABS and on primed substrates)

29903 1K MATT BASE (One-pack basecoat for suitably primed substrates)

29925 2K HELM BASE COAT (Two-pack matt basecoat with direct adhesion on PC [polycarbonate])

29945 2K GRIP BASE (Two-pack matt basecoat with direct adhesion on non-ferrous metals)

29946 1K METALGRIP (One-pack low bake drying semi-matt topcoat with direct adhesion on metals)

29947 2K PLASTICGRIP (Two-pack one coat semi-matt topcoat with direct adhesion on plastics, glass and non-ferrous metals)

29943 2K PLASTICGRIP WS (Two-pack one coat topcoat with direct adhesion on plastics, glass and non-ferrous metals)

29949 1K PLASTICGRIP (One-pack one coat topcoat with direct adhesion on ABS)

CODE	NAME	CHARACTERISTICS	Mixing ratio by volume COLOUR / BINDER	MIXING RATIO			
				HARDENER		THINNER	
				CODE	% Vol.	CODE	% Vol.
LS920 (29920)	MULTI PLAST PRIMER	Two-pack primer for plastics	30/70	SEE TDS N°0512		SEE TDS N°0512	
LS902 (29902)	2K HIGH MATT BASE	Two-pack basecoat with direct adhesion on ABS and PC/ABS and on primed substrates	50/50	29355	10	00824-00825	50-80
LS903 (29903)	1K MATT BASE	One-pack basecoat for suitably primed substrates	50/50			00824-00825	50-80
LS925 (29925)	2K HELM BASE COAT	Two-pack matt basecoat with direct adhesion on PC (polycarbonate) special for helmets painting	50/50	29342	15	00622-00825	30-40
LS945 (29945)	2K GRIP BASE	Two-pack matt basecoat with direct adhesion on non-ferrous metals	50/50	29355	10	00824-00825	50-80
LS946 (29946)	1K METALGRIP	One-pack low bake drying semi-matt topcoat with direct adhesion on metal	50/50			00824-00825	60-80
LS947 (29947)	2K PLASTICGRIP	Two-pack low bake drying semi-matt topcoat with direct adhesion on plastics, glass and non-ferrous metals	50/50	29355	20	00527	70-100
LS943 (29943)	2K PLASTICGRIP WS	Two-pack one coat topcoat with direct adhesion on plastics, glass and non-ferrous metals	50/50	29355	20	00824	50
LS949 (29949)	1K PLASTICGRIP	One-pack one coat topcoat with direct adhesion on ABS	50/50			00527	100

TINTERS

The system is modular and composed of N° 35 Standard Tinters (+ 1 Additive) + N° 14 Optional Tinters (+1 Additive) + N° 8 Solid Tinters + N° 4 High Resistance Metallic (HR) Tinters + N° 4 Fluo Tinters.

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STANDARD						
	29602	L0290602	L0290602L3.75	L	3,75	CB LECHSYS STRONG WHITE
	29607	L0290607	L0290607L1	L	1	CB LECHSYS GOLDEN YELLOW
	29614	L0290614	L0290614L1	L	1	CB LECHSYS TRANSPARENT SOLID YELLOW
	29621	L0290621	L0290621L1	L	1	CB LECHSYS ORANGE YELLOW
	29636	L0290636	L0290636L1	L	1	CB LECHSYS COPPER RED
	29640	L0290640	L0290640L1	L	1	CB LECHSYS RED
	29643	L0290643	L0290643L1	L	1	CB LECHSYS RUBY RED
	29652	L0290652	L0290652L1	L	1	CB LECHSYS SOLID AMARANTH
	29654	L0290654	L0290654L1	L	1	CB LECHSYS LIGHT RED
	29655	L0290655	L0290655L1	L	1	CB LECHSYS MAGENTA RED
	29658	L0290658	L0290658L1	L	1	CB LECHSYS SOLID VIOLET
	29661	L0290661	L0290661L1	L	1	CB LECHSYS INDIGO BLUE
	29668	L0290668	L0290668L1	L	1	CB LECHSYS LIGHT BLUE
	29669	L0290669	L0290669L1	L	1	CB LECHSYS SAPPHIRE BLUE
	29672	L0290672	L0290672L1	L	1	CB LECHSYS EMERALD GREEN
	29681	L0290681	L0290681L3.75	L	3,75	CB LECHSYS DEEP BLACK
	29800	L0290800	L0290800L1	L	1	CB LECHSYS OPAL WHITE
	29805	L0290805	L0290805L1	L	1	CB LECHSYS SPARKLE LIGHT SILVER
	29806	L0290806	L0290806L1	L	1	CB LECHSYS MICRO LIGHT SILVER
	29819	L0290819	L0290819L1	L	1	CB LECHSYS METALLIC GOLD
	29820	L0290820	L0290820L1	L	1	CB LECHSYS MICA GOLD
	29822	L0290822	L0290822L1	L	1	CB LECHSYS MICA REFLEX GOLD
	29831	L0290831	L0290831L1	L	1	CB LECHSYS MICA ORANGE
	29842	L0290842	L0290842L1	L	1	CB LECHSYS MICA RED
	29852	L0290852	L0290852L1	L	1	CB LECHSYS MICA REFLEX VIOLET
	29862	L0290862	L0290862L1	L	1	CB LECHSYS MICA REFLEX BLUE
	29872	L0290872	L0290872L1	L	1	CB LECHSYS MICA REFLEX GREEN
	29878	L0290878	L0290878L1	L	1	CB LECHSYS XIRALLIC CRYSTALL SILVER
	29885	L0290885	L0290885L1	L	1	CB LECHSYS MICA FINE WHITE
	29888	L0290888	L0290888L1	L	1	CB LECHSYS WHITE PEARL EXTRABRITE
	29891	L0290891	L0290891L3.75	L	3,75	CB LECHSYS FINE SILVER
	29894	L0290894	L0290894L3.75	L	3,75	CB LECHSYS MEDIUM SILVER
	29895	L0290895	L0290895L3.75	L	3,75	CB LECHSYS SUPER LIGHT SILVER
	29896	L0290896	L0290896L3.75	L	3,75	CB LECHSYS COARSE LENS SILVER
	29898	L0290898	L0290898L3.75	L	3,75	CB LECHSYS SPARKLE SILVER
ADDITIVE	29999	L0290999	L0290999L3.75	L	3,75	CB LECHSYS MIX AGENT
OPTIONAL						
	29624	L0290624	L0290624L1	L	1	CB LECHSYS VIVID ORANGE
	29649	L0290649	L0290649L1	L	1	CB LECHSYS SOLID CARMINE
	29662	L0290662	L0290662L1	L	1	CB LECHSYS FROST BLUE
	29663	L0290663	L0290663L1	L	1	CB LECHSYS COLD BLUE
	29678	L0290678	L0290678L1	L	1	CB LECHSYS GREEN YELLOW
	29682	L0290682	L0290682L1	L	1	CB LECHSYS EXTRA DEEP BLACK
	29684	L0290684	L0290684L1	L	1	CB LECHSYS BLUE BLACK
	29874	L0290874	L0290874L1	L	\	CB LECHSYS XIRALLIC RADIANT RED
	29883	L0290883	L0290883L1	L	1	CB LECHSYS MICA MICRO WHITE
	29887	L0290887	L0290887L1	L	1	CB LECHSYS MICA MEDIUM WHITE
	29889	L0290889	L0290889L1	L	1	CB LECHSYS EXTRA FINE SILVER
	29892	L0290892	L0290892L3.75	L	3,75	CB LECHSYS MEDIUM LENS SILVER
	29897	L0290897	L0290897L3.75	L	3,75	CB LECHSYS COARSE SILVER
	29899	L0290899	L0290899L3.75	L	3,75	CB LECHSYS MICRO LENS SILVER
ADDITIVE	29997	L0290997	L0290997L3.75	L	3,75	CB LECHSYS MATTING AGENT

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PASTEL						
	29608	L0290608	L0290608L1	L	1	CB LECHSYS RAY YELLOW
	29610	L0290610	L0290610L1	L	1	CB LECHSYS BRILLIANT COLD YELLOW
	29613	L0290613	L0290613L1	L	1	CB LECHSYS PALE OXIDE YELLOW
	29615	L0290615	L0290615L1	L	1	CB LECHSYS BRILLIANT WARM YELLOW
	29617	L0290617	L0290617L1	L	1	CB LECHSYS GOLDEN YELLOW 2
	29625	L0290625	L0290625L1	L	1	CB LECHSYS RAY ORANGE
	29633	L0290633	L0290633L1	L	1	CB LECHSYS OXIDE RED
	29645	L0290645	L0290645L1	L	1	CB LECHSYS VIVID RED
HIGH RESISTANCE						
HR	29691	L0290691	L0290691L1	L	1	CB LECHSYS FINE SILVER HR
HR	29692	L0290692	L0290692L1	L	1	CB LECHSYS MEDIUM LENS SILVER HR
HR	29694	L0290694	L0290694L1	L	1	CB LECHSYS MEDIUM SILVER HR
HR	29696	L0290696	L0290696L1	L	1	CB LECHSYS COARSE LENS SILVER HR
FLUO						
FLUO	29F01	L0290F01	L0290F01L1	L	1	CB LECHSYS FLUO FUXIA
FLUO	29F02	L0290F02	L0290F02L1	L	1	CB LECHSYS FLUO ORANGE
FLUO	29F03	L0290F03	L0290F03L1	L	1	CB LECHSYS FLUO STRONG RED
FLUO	29F05	L0290F05	L0290F05L1	L	1	CB LECHSYS FLUO SOLAR YELLOW

AVAILABLE COLOUR TOOLS

In the Software Lechler MAP® the formulations for the following reference colour tools are available:

- (97170) RAL 841 GL (solid colours)
- (97170) RAL 840 HR (Metallic – Mica – Fluo colours)
- (97595) MASTER CHROMA EFFECT
- (97714) NEW MASTER CHROMA
- (97963) TINTE BASE- BASE COLORS (Lechsys Effect Tinters fan)
- (02124) NCS
- (99492) CUBE EFFECTS * (All cards with the symbol ▲ are coated with Optional Tinters)

The system is moreover equipped with the following reference items:

- (P6301) PRODUCTS AND EFFECTS CARD
- (97653) SOLID COLOUR CIRCLE
- (97654) METALLIC COLOUR CIRCLE
- (97652) MASTER INDUSTRY

The series of CONCENTRATED LECHSYS EFFECT TINTERS has been strictly tested and can guarantee a consistent colour match.

NOTES

All matt basecoats are overcoatable with all gloss or matt acrylic clearcoats of our range; only LS925 (29925) and LS945 (29945 – solid colours excluded) are also overcoatable with SOFT TOUCH clearcoat (31575). LS947 (29947) 2K PLASTICGRIP and LS943 (29943) 2K PLASTICGRIP WS with addition of 09830 GLASS ADHESION PROMOTER can be used to paint glass (for interior fixtures).

LS943 (29943) 2K PLASTICGRIP WS combined with HR metallic tinters 29691 – 29692 – 29694 – 29696 allows you to obtain a one coat topcoat for manufactured items for outdoor use (manufacturer ARCHITECTURAL), as the combination with high resistance (HR) metallic tinters assures very good weather, light and pollution resistance.

For all manufactured items painted with two-pack products, air dried or low baked at lower temperatures than those indicated on the technical data sheet, we recommend to wait at least 7 days before exposing the manufactured items to severe conditions (water, humidity or chemical substances).

Metallic colours of the Lechsyst Effect system are sensitive to application methods; the realisation of the same colours in different application conditions from the TDS allows only an indicative colour matching, due to lamellar, metallic and pearl pigments that according to their orientation can make a colour noticeably different.

***Colours shown in CUBE Effects tool are indicative and can vary in tone, effect and gloss according to products used, applied film thickness, finish effect, substrates, application systems and plants. Therefore it is recommended to carry out preliminary tests and to perform colour correction, if necessary, prior to taking the colour chosen for the production.**

In case of sample colour production, use max. 40% of metallic or pearl tinters of the colour formulation. Then integrate with 10% 29999 MIX AGENT or with solid tinters. The remaining 50% is composed of the binder. To decrease the gloss level you can replace up to 20% of the tinters with 29997 MATTING AGENT.

THE % MIXING RATIOS ARE MEANT BY VOLUME.

To manage and obtain a colour it is recommended to choose the colour after checking its colour reference on our colour tools; then, after mixing the product using the Lechler MAP® formulation, apply the product catalysed and thinned as per TDS until complete coverage has been achieved and compare it when thoroughly dried with the colour reference under optimal light conditions. If necessary, proceed with colour correction. Avoid painting manufactured items without any previous colour check.

IMPORTANT NOTE ON TINTERS DISPERSION

In the Lechsyst Effect system an unsuitable mixing process for adding the tinters according to the formulation can lead to a different colour compared to the colour previously mixed.

This phenomenon occurs when mixing some tinters of the system which, being rheologically structured, have difficulty in homogeneously mixing with each other.

Therefore, the use of a shaft mixer (instead of a gyro-mixer) as well as the complete pre-dispersion of all these critical tinters in the MIX AGENT 29999, if it is present in the formula, or the complete pre-dispersion in a binder's part, can solve the problem.

The mixing duration is dependent on the product quantities to be mixed.

Here follow the tinters concerned:

**L0290613L1 CB LECHSYS PALE OXIDE YELLOW
L0290614L1 CB LECHSYS TRANSPARENT SOLID YELLOW
L0290617L1 CB LECHSYS GOLDEN YELLOW
L0290636L1 CB LECHSYS COPPER RED
L0290643L1 CB LECHSYS RUBY RED
L0290649L1 CB LECHSYS SOLID CARMINE
L0290652L1 CB LECHSYS SOLID AMARANTH
L0290654L1 CB LECHSYS LIGHT RED
L0290655L1 CB LECHSYS MAGENTA RED**

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