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S2 SURVEY REPORT

Group 2

1

Circuit printing lacquers

2

5

6

7

8

9

10

11

12

13

14

15

This survey report gives a comprehensive overview of product group 2. For further information please refer to the technical reports (TR) and application information sheets (AI), in which the mentioned products are described in detail.

For more extensive advice, our application technology department (ATD) is at your disposal at any time.

The first column of this survey corresponds to the order in which our technical reports (TR) are filed in the report manual and/or supplements and new technical reports are to be added. Thus this survey also serves as a table of contents of product group 2.

= registered trademark of Lackwerke Peters GmbH + Co KG for photo-imageable lacquers

= registered trademark of Underwriters Laboratories Inc.; Northbrook, Illinois 60062.

Table of contents

1.	Application information sheets	2
2.	Etch and plating resists	
3.	. •	
4.	Via hole fillers	5
5.	1-pack solder resists	5
6.	Conventional solder resists and	
	ELPEMER® photoimageable 2-pack	
	solder resists	6

7.	Marking inks	. 9
8.	Thick film fillers	11
9.	Heatsink paste	11
10.	Flux stop lacquer	12
11.	Plugging pastes	12
12.	Carbon-conductive inks	13
13.	Peelable solder masks	13

1. Application information sheets

Application Information sheets (AI) apply to various lacquers/lacquer series' and supplement the Technical Reports on these lacquers by giving detailed explanations of possible application procedures and individual process steps plus offering numerous practical tips and advice to safeguard the optimum processing of our products.

The associated Technical Reports provide - in a concise and clear manner - numerous characteristics and processing data in transparent diagrams, graphics and tables.

Currently the following application information sheet for group 2 is available:

Al 2/1 "Processing information for the photoimageable solder resists of the series' ELPEMER® 2467, ELPEMER® 2469 and ELPEMER® 2463 FLEX".

2. Etch and plating resists

2.1 General characteristics

- high definition enables the representation of fine conductors
- UV and thermal curing
- · excellent adhesion and high surface hardness
- the flake strippable etch and plating resists (index FS) offer the advantage that the flakes can be removed from the stripper medium by means of filters so that the waste water contamination is reduced and the service life of the stripping solution increased.

2.2 Special characteristics of the liquid ELPEMER® photoresists

- owing to their outstanding resolution, even ultra-fine conductors < 50 μm can be represented with the photoimageable resists of the series ELPEMER®
- particularly suited for the production of multilayer inner layers.

2.3 Product-specific characteristics

Product (series)	Special properties
Etch resist for plated-through	application by screen printing
holes: hole filler SD 2002 TMP, colourless	oven curing
Colouness	to fill plated-through holes in double-sided pcbs for safe protection in the etching process
	 temporary hole filler (Index TMP = temporary), is stripped after etching in alkaline media together with the subsequently printed etch resist
Etch and plating resist	application by screen printing
SD 2050 UV , blue	UV curing (index UV)
	suited for 150 μm technology
	resistant up to pH 9
	very easily stripped in alkaline media
Etch and plating resist	application by screen printing
SD 2051 UV-AL-FS, blue	UV curing (index UV)
	suited for 150 μm technology
	can be used to etch 400 μm copper
	resistant to acid etching and plating baths
	very easily stripped in al kaline media (index AL)
	• index FS = flake strippable

Product (series)	Special properties
Etch resists of the series	application by screen printing
SD 2052 AL	air and oven drying
SD 2042 AL, black SD 2052 AL, blue	resistant up to pH 9
	easily stripped in al kaline media (index AL)
Etch and plating resist	application by screen printing
SD 2053 UV-AL, blue	UV curing (index UV)
	suited for 150 μm technology
	resistant to acid etching and plating baths
	very easily stripped in al kaline media (index AL)
1-pack photoresist RC 2054 HR, blue transparent	 application by roller coating (index RC), curtain coating, dipping, spray coating
	photoimageable etch resist
	no fillers and pigments, thus high productivity and no disturbing sediment in developer, thus little cleaning work required
	fast drying and very low exposure energy
	significant colour change during exposure from colourless to blue- violet ensures good visual control
	• excellent resolution (< 50 μm, index HR = h igh r esolution)
	aqueous-alkaline developable
	resistant to acid etching baths
	strippable in small, easily filtered flakes
1-pack photoresists of the se-	application by screen printing
ries SD 2054 SD 2054, blue transparent	photoimageable etch and plating resist
SD 2054, blue transparent SD 2054 I, colourless/blue-violet	similar to RC 2054 HR, but applied by screen printing
	SD 2054 I contains a colour indicator (index I): colour change from colourless to blue-violet during exposure
Etch resist SD 2058 UV-FS, blue	application by screen printing
	UV curing (index UV)
	suited for 150 μm technology
	resistant to acid etching baths
	fast curing and strippability
	strippable in alkaline media
	index FS = flake strippable
Etch and plating resists of the series SD 2059 UV-AL	application by screen printing
SD 2059 UV-AL, blue	UV curing (index UV)
SD 2059 UV-AL-T, blue	suited for 150 μm technology
	resistant to pH 9
	very easily stripped in al kaline media (index AL)
	• index T = thixotropic

Product (series)	Special properties
Plating resist SD 2149 SIT,	application by screen printing
black	oven curing
	for use in Secondary Imaging Technology (SIT)
	protects metal surfaces during the electroless Ni/Au process (ENiG) and thus enables an additional finish to Ni/Au (as a rule OSP surfaces, OSP = Organic Solderability Preservative)
	pleasant odour
	broad process window
	good adhesion to copper and solder resists
Etch and plating resist	application by screen printing
SD 2150 UV-AL-FS, blue	UV curing (index UV)
	 enables representation of fine conductors up to 250 μm
	perfectly suited for flexible circuits and for roll-to-roll application
	resistant to acid etching and plating baths
	very easily stripped in alkaline media (index AL)
	index FS = flake strippable
Etch and plating resist	application by screen printing
SD 2153 AL-BS, blue transparent	suited for 150 μm technology
ent	resistant to acid etching and plating baths
	also resistant to gold plating baths
	easily stripped in alkaline media (index AL)
Wepelan plating resist	application by screen printing
SD 2154 E , blue	air or oven drying
	outstanding resistance over the entire pH range
	very good resistance to cyanide baths
	• index E = elastic
	strippable in esters and ketones

3. 1- and 2-pack ELPELECT® dielectrics

3.1 General characteristics

- insulating layer in the sequential fabrication of multilayer circuits (SBU = sequential build-up technology)
- suited for laser ablation with CO2, Nd-YAG and Eximer lasers
- finest structures can be represented without any problems
- very good adhesion of the subsequent metal plating (> 10 N/cm).

3.2 Product-specific characteristics

Product (series)	Special properties
1-pack dielectric ELPELECT® GL 2230 LA, dark-red transparent	 application by curtain coating laser-ablatable (index LA) free of halogenated flame retardants corresponds to best flame class V-0 acc. to UL 94
2-pack dielectric ELPELECT® SD 2230 LA, dark-red transparent	same as GL 2230 LA, but applied by screen printing

4. Via hole fillers

4.1 General characteristics

- prevent the penetration of solder to the component side and the settling of flux residues in the holes
- ensure the sealing of via holes for vacuum adaption during in-circuit testing.

See also section 10 "Plugging pastes".

4.2 Product-specific characteristics

Product (series)	Special properties
Via hole fillers of the series	application by screen printing
SD 2361, green	safe closing of via holes100 % solids content means practically no volume shrinkage
SD 2361 T, green	 the thixotropic adjustment (index T) is suited for larger holes (> 0.5 mm)
	• Pu approval: best flame class V-0 acc. to UL 94, Approbation No. File E 80315

5. 1-pack solder resists

5.1 General characteristics

- UV curing, high curing speed
- 100 % solids content, thus no drying on screen
- easy to print; can thus be processed at high squeegee/printing speeds
- low odour.

5.2 Product-specific characteristics

Product (series)	Special properties
1-pack solder resists of the series SD 2368 UV, transparent SD 2308 UV-SM, colourless SD 2348 UV-SM, black SD 2368 UV-SM, green SD 2368 UV-SM-DG, dark-green SD 2368 UV-HFG, green	 application by screen printing UV curing (index UV) for copper conductors of up to 70 μm transparent perfect curing even in thicker layers suited for the Hot-Air Levelling process Approval for the colourless and green adjustments:
	 best flame class V-0 acc. to UL 94, Approbation No. File E 80315 indices: SM = silk-mat; SG = silk-glossy; DG = dark-green; HFG = halogen-free green
1-pack touch-up lacquer SD 2369 UV-ABL, yellow-green transparent	 application by screen printing or brush UV curing (index UV) transparent lacquer for eliminating minor mechanical defects (index ABL = touch-up lacquer) especially suited for all yellow-green solder resists of the series' ELPEMER® 2467 and ELPEMER® 2469

6. Conventional solder resists and ELPEMER® photoimageable 2-pack solder resists

6.1 General characteristics

- excellent printing properties, even in the case of high conductors
- enable so called mass soldering and selective soldering at the same time
- · absolutely non-bleeding
- · for rigid and flexible circuits
- low solvent content (low VOC; VOC = Volatile Organic Compound), high solids content
- · excellent adhesive strength.

6.2 Special characteristics of the ELPEMER® photoimageable solder resists

- ullet virtually vertical sidewalls enable the representation of finest structures, for instance 50 μm solder dams between SMD pads
- very short processing times
- · very high processing reliability
- very low exposure energy
- aqueous-alkaline or polyalcohol developable
- good thermal cycling resistance and high temperature resistance
- compatible with lead-free soldering processes
- · best resistance to electroless and electro plating finish processes
- R approval: best flame class V-0 acc. to UL 94, Approbation No. File E 80315
- meet IPC-SM-840 C and Bellcore GR 78 CORE specifications
- mould-resistant in accordance with IPC-SM-840 C, item 3.4.6, and DIN IEC 60068-2-10.

Please read the advice in our Application Information Al 2/1 (see also section 1).

6.3 Product-specific characteristics

Product (series)	Special properties
2-pack solder resist	application by screen printing
SD 2444 NB-M, black	excellent adhesive strength and resistance to soldering processes
	no light reflection, therefore especially suited for use in optoelectronics
	• index NB = no bleeding; M = mat
2-pack solder resists of the	application by screen printing
series SD 2460 FLEX	can already be cured at 80 °C
SD 2420 FLEX, amber transp. SD 2460 FLEX, green transp.	 excellent adhesion to polyimide and polyester films (index FLEX = for flexible circuits)
	 approval: best flame class V-0 acc. to UL 94 for SD 2460 FLEX, Approbation No. File E 80315
	 are particularly suited as "top coats" in thick-copper technology (e.g. 400 µm technology) and offer highest reliability for this technology (see also Section 8 "Thick film filler")

Product (series)	Special properties
2-pack solder resists of the series SD 2460/201 UV-FLEX SD 2450/201 UV-FLEX, blue SD 2460/201 UV-FLEX, green SD 2490/201 UV-FLEX, white	 application by screen printing UV curing (index UV) resistant to Hot-Air Levelling excellent adhesion to polymide, polycarbonate and polyester films (index FLEX = for flexible circuits) suited for cross-over technology approval for SD 2460/201 UV-FLEX: best flame class V-0 acc. to UL 94, Approbation No. File E 80315 application by screen printing
SD 2450/201 UV-COT, blue	 UV curing (Index UV) resistant to Hot-Air Levelling particularly suitable for use on rigid pcbs in Cross-Over-Technology (Index COT): when used as an under or overcoat compatible with numerous conductive pastes (silver-, carbon- and particularly copper-conductive pastes)
2-pack solder resists of the series SD 2462 NB and SD 2462 NB-M SD 2462 NB, green SD 2462 NB-T, green SD 2462 NB-M, colourless SD 2432 NB-M, red SD 2442 NB-M, black SD 2452 NB-M, blue SD 2462 NB-M, green SD 2462 NB-M-YG, yellow-green SD 2452 NB-M/550, blue SD 2462 NB-M/550, green	 application by screen printing outstanding definition and excellent edge coverage outstandingly high adhesive strength on account of its excellent adhesive strength, in combination with the thick film filler DSF 2706 UV SD 2462 NB-M is particularly suitable as a "top coat" in thick-copper technology (e.g. 400 µm technology) (see also section 8 "thick film fillers") excellent chemical resistance partially approval: best flame class V-0 acc. to UL 94, Approbation No. File E 80315 indices: NB = no bleeding; T = thixotropic; M = mat; YG = yellow-green; 550 = viscosity 550 dPas (highly viscous)
2-pack solder resists of the series SD 2463 FLEX-HF SD 2423 FLEX-HF, amber SD 2463 FLEX-HF, green	 application by screen printing highly-flexible, thus particularly suitable for printing on flexible base materials, (Index FLEX = for flexible circuits) photoimageable excellent resolution up to 30 μm aqueous-alkaline developable halogen-free per JPCA-ES-01-1999 approval: best best flame class V-0 acc. to UL 94

Product (series)	Special properties
2-pack solder resists of the	suitable for all common application purposes
series Peters 2467	photoimageable
AS 2467 SG-DG AS 2467 XM-DG	aqueous-alkaline developable
AS 2467 XM-XG	approval: best flame class V-0 acc. to UL 94
ES 2467 SG-DG	 many types available as halogen-free adjustments acc. to JPCA-ES- 01-1999
GL 2467 SG-DG GL 2467 SG-GG GL 2467 SG-XG GL 2467 SM-DG GL 2467 SM-GG	 indices: AS = air spray, ES = electrostatic spray, GL = curtain coating, SD = screen printing, SG = silk-glossy; SM = silk-mat; DG = dark-green; GG = grass-green; YG = yellow-green; XM = extra-mat; XG = extra dark-green
SD 2467 SG-DG SD 2467 SG-GG SD 2467 SG-XG SD 2467 SM-DG SD 2467 SM-GG SD 2467 SM-XG SD 2467 SM-YG SD 2467 XM-DG	available special colour adjustments AS 2447 XM, black AS 2497 SM, white SD 2407 SM, colourless SD 2417 SG, yellow transparent SD 2427 SG, amber SD 2437 SM, red transparent SD 2447 SM, black SD 2447 XM, black SD 2457 SM, blue transparent SD 2497 SM, white
2-pack via hole fillers of the	application by screen printing
series Peters VF 2467	• photoimageable via hole filler (index VF = via hole filler)
VF 2467 DG VF 2467 LYG	compatible with the solder resists of the series 2467
	aqueous-alkaline developable
	approval: best flame class V-0 acc. to UL 94
	 indices: VF = via hole filler; DG = dark-green; LYG = light-yellow-green
2-pack touch-up lacquer	application by brush
AL 2468 YG	 yellow-green transparent lacquer for eliminating minor mechanical defects (index AL = touch-up lacquer)
	based on the 2-pack solder resists of the series SD 2468 NB
	• index YG = y ellow- g reen
2-pack solder resists of the	application by screen printing
series SD 2468 NB and SD 2468 NB-M	available in various colour adjustments
CD 2400 ND-W	 partially approval: best flame class V-0 acc. to UL 94, Approbation No. File E 80315
	SD 2468 NB-M-HV/50 is specially suited for coating backpanels
	• indices: NB = no bleeding; M = mat
	We also draw your attention to the newer series SD 2462 NB and SD 2462 NB-M .

Product (series)	Special properties
2-pack solder resists of the	application by screen printing
series SD 2468 NB-M/21	very good adhesion to metals such as Sn, Pb/Sn and Ni
	 excellent printing properties, for instance over high conductors (70 µm) and in tight conductor spaces
	available in various colour adjustments
	 partially approval: best flame class V-0 acc. to UL 94, Approbation No. File E 80315
	• indices: NB = no bleeding; M = mat
2-pack solder resists of the	suitable for all common application purposes
series 2469 SM, yellow-green	photoimageable
AS 2469 SM	extremely broad processing window
ES 2469 SM GL 2469 SM	polyalcohol developable, preferably in butyl carbitol or carbitol
SD 2469 SM	excellent resistances and electrical properties
	approval: best flame class V-0 acc. to UL 94
	approved by numerous leading electronics manufacturers
	 Indices: AS = air spray, ES = electrostatic spray, GL = curtain coating, SD = screen printing, SM = silk-mat
2-pack solder resist	application by screen printing
SD 2494 NB-SM, white	excellent adhesive strength
	owing to excellent resistance to yellowing and good light reflection application in optoelectronics and automobile electronics (instrument panels)
	• approval: best flame class V-0 acc. to UL 94, Approbation No. File E 80315
	• indices: NB = n o b leeding; SM = s ilk- m at

7. Marking inks

7.1 General characteristics

- excellent definition
- · high solids content
- outstanding covering power
- · very good adhesive strength
- solder bath resistant.

7.2 Special characteristics of the ELPEMER®photoimageable marking inks

- the excellent resolution of the photoimageable ELPEMER® marking inks enable the representation of finest details
- no time- and cost-consuming fabrication of screen stencils
- aqueous-alkaline developable
- excellent colour stability even after the soldering process.

7.3 Product-specific characteristics of the 1-pack marking inks

Product (series)	Special properties
1-pack marking inks of the series SD 2513 UV SD 2513 UV, yellow SD 2543 UV, black SD 2593 UV, white	application by screen printing
	UV curing (index UV)
	100 % solids content
	short curing times
	high colour stability
1-pack marking ink IJ 2595 UV, white	application by means of the ink jet process, no satellite effect
	UV curing (Index UV), no thermal final cure required
	short curing times
	free of VOCs (Volatile Organic Compounds)

7.4 Product-specific characteristics of the 2-pack marking inks

Product (series)	Special properties
2-pack marking inks of the series SD 2615 SD 2615, yellow SD 2615 T, yellow SD 2645, black SD 2695, white SD 2695 T, white SD 2695 HT, white 2-pack marking inks of the series SD 2617 SD 2617, yellow SD 2617 HV, yellow SD 2617 SF, reddish-yellow 2-pack marking inks SD 2618 and SD 2698 SD 2618, yellow SD 2698, white	 application by screen printing available in various thixotropic adjustments: T = thixotropic; HT = highly thixotropic free of lead chromate fast curing excellent chemical resistance very good adhesive strength application by screen printing free of lead chromate and amine long pot life / processing time (at least 1 month) indices: HV = highly viscous; SF = stronger colour application by screen printing photoimageable free of lead chromate particularly suited for pilot and low-volume series' since no need for
2-pack marking inks of the series SD 2692 T	 expensive screen stencils representation of finest details (50 µm) aqueous-alkaline developable application by screen printing free of lead chromate (except SD 2622 T)
SD 2622 T, orange SD 2632 T, red SD 2642 T, black SD 2652 T, blue SD 2692 T, white SD 2612 T-K, yellow SD 2692 T-K, white SD 2692, white	 long pot life / processing time (at least 6 weeks) the catalysed adjustments (index K) boast a shorter curing time, a considerably improved adhesive strength and have a pot life of one day excellent definition owing to the high thixotropy (index T) SD 2692 is not thixotropic and thus suited for overprinting closely spaced conductors excellent chemical resistance

8. Thick film fillers

8.1 General characteristics

- to fill the spaces between high traces in thick copper technology (for instance 400 µm technology)
- solvent-free
- ideal basis for the subsequent solder resist coating
- · very good solder bath resistance
- also compatible with lead-free soldering processes
- flexible, thus suited for use on so-called "static flex" circuit boards (printed circuit boards that are subjected to just one or very few bending stresses, for instance during installation).

8.2 Product-specific characteristics

Product (series)	Special properties
Thick film filler DSF 2706 UV, colourless	application by screen or stencil printing
	• UV curing 2-pack system (index UV = UV curing)
	UL approval acc. to UL 94, Approbation No. File E 80315
	free of halogenated flame retardants
	halogen-free acc. to JPCA-ES-01-1999
	 forms a system in thick-copper technology in combination with the 2-pack solder resists SD 2460 FLEX or SD 2462 NB-M as "top coats"
Thick film filler DSF 2707 UV, colourless	application by screen or stencil printing
	• UV curing 1-pack system (Index UV = UV curing)
	UL approval acc. to UL 94, Approbation No. File E 80315
	free of halogenated flame retardants
	 forms a system in thick-copper technology in combination with the 2-pack solder resist SD 2460 FLEX as "top coat"

9. Heatsink paste

9.1 General characteristics

- highly thermally conductive system for the thermal management of printed circuit boards and assemblies
- low-cost alternative to conventional heatsinks; problem-free application with existing screen printing technology
- enables the flexible configuration of varying heatsink geometries.

9.2 Product-specific characteristics

Product (series)	Special properties
1-pack heatsink paste HSP 2741, black	application by screen printing
	100 % solids content
	 high dielectric strength, thus no need for electrical insulation layer between pcb and heatsink
	approval acc. to UL 94, Approbation No. File E 80315
	German patent already granted, international patents pending

10. Flux stop lacquer

10.1 General properties

 restricts the coating of fluxing agents to defined areas and prevents inadvertent spreading of fluxing agents on the pcb, particularly in SMD areas

10.2 Product-specific characteristics

Product (series)	Special properties
2-pack flux stop lacquer SD 2792, white	application by screen printing
	long pot life
	high definition print
	is applied as a "frame" at a distance of 5 mm around solderpoints
	thermal curing

11. Plugging pastes

11.1 General characteristics

- · suited for the creation of blister-free, smooth hole fillings in buried vias
- enable the application of smooth insulating layers in SBU technology
- 100 % solids content
- low coefficient of thermal expansion, no cracking or delamination of the layers applied
- metallisable
- PP 2795-SD for screen printing and PP 2795 for roller coating have been awarded the best flame class V-0 in accordance with UL 94, Approbation No. File E 80315
- the plugging pastes PP 2795-SD and PP 2795 are suitable for use in space electronics. These
 products are listed as approved materials in the NASA specification D-8208 "Spacecraft Design
 and Fabrication Requirements for Electronic Packaging and Cabling; Section 3.6, Printed Wiring
 Boards; Table 3.6-5: Acceptable Via Hole-Fill Material"
- the pluggable diameter depends on the "aspect ratio" of the plated-through holes to be filled (ratio between material thickness and via hole diameter); see also section 10.2 "Product-specific characteristics".

11.2 Product-specific characteristics

Product (series)	Special properties
Plugging pastes of the series PP 2795, white PP 2795 PP 2795 HV	 application by roller coating plugging of via holes with the highly viscous adjustment (index HV) extremely thick pcbs
	 PP 2795 HV can also be applied by means of screen or stencil printing
Plugging pastes of the series PP 2795-SD	 application by screen printing (index SD = screen printing) plugging of via holes
PP 2765-SD, green PP 2795-SD, light-grey	

12. Carbon-conductive inks

12.1 General characteristics

- · excellent definition owing to high thixotropy
- · also suited for flexible base material
- · excellent adhesive strength and mechanical stability
- resistant to Hot-Air Levelling
- · high chemical resistance
- stable electrical resistance even after temperature and moisture stress.

12.2 Product-specific characteristics

Product (series)	Special properties
1-pack carbon conductive ink SD 2841 HAL-IR, black, mat, 14-20 Ω/□*	 application by screen printing very smooth surface, thus suited for sliding contacts particularly suited for IR drying (index IR = infrared-curable) hot-air levelling resistant (index HAL) can be mixed with 1-pack insulating paste SD 2801 HAL, grey, to increase resistance
1-pack carbon-conductive ink SD 2843 HAL, black, mat, 13-20 Ω/□*	 application by screen printing hot-air levelling resistant (index HAL) high chemical and thermal resistance particularly long shelf life: 6 months

^{*} resistance related to a square area at a layer thickness of about 25 µm

13. Peelable solder masks

13.1 General characteristics

- for the partial coverage of printed circuit boards as protection from direct contact with solder baths and as protection in plating processes
- · very high elasticity and tear resistance
- residue-free removal before and/or after the soldering process.

Please also observe the notes in our **Technical Information sheet TI 15/7** "**Selection criteria** and processing advice for peelable solder resists (solder masks) of the series SD 2950" In our report manual this technical information sheet is filed under group 15.

13.2 Product-specific characteristics

Product (series)	Special properties
Peelable solder masks of the series SD 2950 SD 2950, blue SD 2950 T, blue SD 2952, blue SD 2952 HV, blue	application by screen printing
	unlimited pot life, as solvent-free
	easy to process
	SD 2950/SD 2950 T: particularly suited for the Hot-Air Levelling process; cannot be peeled until after soldering
SD 2953, blue SD 2962 P, green	SD 2990 T: for covering carbon-conductive ink or larger holes
SD 2962 P, green SD 2962 P/350, green SD 2990 T, white	SD 2962 P; SD 2962 P/350:suited as masks in electroplating and other metallising processes
	SD 2952; SD 2952 HV: suited for standard soldering processes, not for overprinting carbon-conductive ink
	SD 2953: same as SD 2952, but with a higher thixotropy
	 indices: T = thixotropic; HV = highly viscous; 350 = viscosity of 350 dPas; P = pigmented
Peelable solder mask SD 2954,	application by screen printing
blue transparent	peelable before and after soldering
	very high thermal stability, multiple soldering possible
	particularly suited for use in reflow soldering (SMD technology)
Peelable solder mask SD 2955,	application by screen printing
blue-green	peelable before and after soldering
	very high thermal stability, multiple soldering possible
	high resistance to lead-free soldering processes
	particularly suitable for reflow soldering (SMD technology)

Any questions?

We would be pleased to offer you advice and assistance in solving your problems. Free samples and technical literature are available upon request.

The above information as well as advice given by our Application Technology Department whether in verbal or written form or during product evaluations is provided to the best of our knowledge, but must be regarded as non-binding recommendations, also with respect to possible third-party proprietary rights.

ommendations, also with respect to possible third-party proprietary rights.

The products are exclusively intended for the applications indicated in the corresponding technical data sheets.

The advisory service does not exempt you from performing your own assessments, in particular of our material safety

data sheets and technical information sheets, and of our products as regards their suitability for the applications intended. The application, use and processing of our products and of the products manufactured by you based on the advice given by our Application Technology Department are beyond our control and thus entirely your responsibility. The sale of our products is effected in accordance with our current terms of sale and delivery.

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