## Application guide

Examp	les of use										
Airbag coatings	Fire & thermal protection	Architectural coatings	Glass braids	Peel ply	Medical and PPE	Conveyor belts	Lace & elastic	Removable non-slip coating	Durable water resistance	Ink matrices	Bonding

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**TCS product range** 



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## TCS products for technical textiles

Surface treatments / ultra thin coatings Processing characteristics								Physical characteristics							Key features
	Technology and mix ratio	Cure rate	Viscosity at 10s <sup>.1</sup> , cP		Recommended process app			Base appearance	Sh A Hardness	Elongation at break (%)	Pot life (h)	Adhesion			
				Roll transfer	Knife	Impregnation	Nozzle extrusion	Spray	Screen printing						
Bluesil™ TCS 7513	10 : 1	1 min 150°C	3,000							Trans	36	150	>16	Multisubstrates	Very low viscosity. Primerisation of surfaces, yarns protection. 100% dry matter
Bluesil™ TCS 7001	Dispersion	3 min 150°C	3.5 mm²/s							Trans	-	-	-	Multisubstrates	Durable Water Repellency and wet abrasion resistance, soft handling
Bluesil™ TCS 7110	Waterbased 10:1	1 min 150 °C	140							Trans	-	-	>16	Multisubstrates	Waterbased silicone elastomer emulsion for thin coatings and textiles impregnations
Bluesil™ TCS 7311	Dispersion	/	7,000							Off-white	30	250	-	Multisubstrates	Large operating temperatures, food innocuity
Bluesil™ TCS 7011	3 components	< 1 min 150°C	400							Trans			24	Siliconized fabrics	Top coat. Ease of cleaning, good slip

Textile coating systems	Processing characteristics									Physical of	characteris	stics	Key features		
	Technology and mix ratio	Cure rate	Viscosity at 10s⁻¹, cP		Recommended process ar			Base appearance	Sh A Hardness	Elongation at break (%)	Pot life (h)	Adhesion			
				Roll transfer	Knife	Impregnation	Nozzle extrusion	Spray	Screen printing						
Bluesil <sup>™</sup> TCS 7517	10 : 1	1 min 150°C	19,000							White	32	200	>16	Multisubstrates	Good balance tear strength / edgecomb resistance, high adhesion onto polyamide substrates
Bluesil <sup>™</sup> TCS 7531	10 : 1	1 min 150°C	33,000							Trans	30	230	>16	Multisubstrates	General purpose trans
Bluesil <sup>™</sup> TCS 7534	10 : 1	1 min 150°C	42,000							White	44	200	>16	Multisubstrates	Excellent compromise on the mechanical properties
Bluesil <sup>™</sup> TCS 7537	10 : 1	1 min 150°C	38,000							White	33	200	>16	Multisubstrates	Excellent adhesion onto synthetic fibers and ageing resistance
Bluesil™ TCS 7550	1:1	1 min 150°C	60,000							Off-white	52	200	>16	Multisubstrates	Excellent insulation and fire resistance. Good bonding onto coated and uncoated fabrics
Bluesil™ TCS 7552	10 : 1	1 min 150°C	50,000							Off-white	24	550	>16	Glass	High physical profile, high elongation

Thick coatings / bonding materials	Processing charac	cteristics				Physical	Key features			
	Technology and mix ratio	Cure rate	Viscosity at 10s <sup>-1</sup> , cP	Recommended proc	Base appearance	Sh A Hardness	Elongation at break (%)	Pot life (h) Adhesion		
				Roll transfer Knife Impregnation Nozzle extrusion	Spray	Screen printing				
Silbione® TCS 7370 OC	RTV 1	/ (1)	170,000			Trans	20	450	- Multisubstrates	Fast cure at room temperature, soft complies with Oeko-Tex 100, and Silbione® labels. Very good on elastic and stretch supports
Silbione® TCS 7560	10 : 1	5 min 90°C	120,000			Trans	15	700	2.5 Narrow webs, open fabric	Soft, high translucency, complies with Oeko-Tex 100 and Silbione® labels. Very good on elastic and stretch supports
Silbione® TCS 7561	10 : 1	5 min 90°C	150,000			Trans	3	1000	2.5 Narrow webs, open fabric	Soft with tackiness, high elongation, high translucency, complies with Oeko-Tex 100 and Silbione <sup>®</sup> labels.Very good on elastic and stretch supports
Silbione® TCS 7772	1:1	2 min 130°C	220,000			Trans	20	575	48 Multisubstrates, narrow web open fabrics	s, High viscosity, long pot life, high translucency, high mechanical properties, complies with Oeko-Tex 100 and Silbione® labels. Very good on elastic and stretch supports
Bluesil <sup>™</sup> TCS 7770	1:1	3 h RT	450,000			Blue	8	1300	0.5 Siliconized fabrics	Good adhesion on silicone coated fabrics. Seam sealing properties
Bluesil™ TCS 7970	HCR	1 min 180°C <sup>(2)</sup>	/			Trans	45	650	Multisubstrates fabrics- coated and uncoated fabric	s Excellent bonding strength

(1): cure rate will vary with temperature and humidity levels.(2): pressure and temperature are required to process this product and to obtain the right bonding performances.

Notes