Aircraft Interior | Material Selection Guide

Product	Product group			DELO-DUOPOX 2C epoxy adhesives	
Prod	Product code			AB8390	AB8162
	Possible applications		Bonded pins	\checkmark	\checkmark
		earing	T-joint Mortise & tenon	\checkmark	√
Applications		Load-bearing	Single slot	√	
			Cut & fold	\checkmark	
	Decoration	(non-load- bearing)	Decorative elements	\checkmark	√
	Color			colorfast white	beige yellowish
	Mixing ratio (A:B)	acco	ording to volume/according to weight	1:1/1.20:1	2:1/2.12:1
ā	Filler			inorganic	inorganic
General	Viscosity	high		\checkmark	
G		med	lium		
		low			\checkmark
	Curing mechanism				
Properties	Flow behavior			pasty but good handling during dispensing, thixotropic property	excellent flow behavior and low sagging effect due to thixotropy
Prop	Media resistance to Skydrol reference fluid [%]	500	stance to Skydrol reference fluid (Tri-n-butyl-phosphate) after h storage at +70°C based on initial value of tensile shear ngth AI/AI sand-blasted, DIN EN 1465	92	98
	Processing time ¹⁾ [min]	fast	(≤ 20 min)		10
Ð	at room temperature (approx. +23 °C), 100 g preparation		lium (> 20 min to ≤ 60 min)	60	
Curing			g (> 60 min)		
	Curing time [h] at room temperature (approx. +23 °C)		initial strength, tensile shear strength 1 – 2 MPa	5	2.25
	DIN EN 1465/DELO Standard 4		functional strength, tensile shear strength > 10 MPa	12	3.5
	Tensile shear strength [MPa] Al/Al sandblasted, DIN EN 1465		ng 7d at room temperature (approx. +23 °C), isured at room temperature	24	24
ties			ng 2 h at +60 °C, measured at room temperature (approx. +23 °C)	25	25
pper			ng 7d at room temperature (approx. +23 °C), measured at +85 °C	5	6
al pr	Floating roller peel resistance	[N/m	IM] AI/AI sand-blasted according to DIN EN 2243-2	4	3.5
anice	Tensile strength [MPa] DIN EN I	SO 527		36	36
Mechanical properties	Elongation at tear [%] DIN EN IS	60 527		4	2
Σ	Young's modulus [MPa] DIN EN			2,300	3,200
	Glass transition temperature	Т _g [°С]	DMTA, 2nd heating run	+92	+117
Availability	Storage life at room temperat	ure (ma	ax. +25 °C)	9 months (vol./comp. = 200 ml: 12 months) none, only available in	9 months
vaile	Color modification			colorfast white	also available in gray
∢	Typical packages: double cha	mber	cartridge, hobbock	200 ml, 20 l	200 ml, 20 l
≥	Flammability tests: Flammabilit	ty 12 s	, Optical Smoke Density, Flame Smoke Toxicity ³⁾	\checkmark	\checkmark
prmi	AIMS (Airbus Industries Mater	rial Sp	ecification)	-	-
Conformity	Compliant with RoHS directive	e 2015	5/863/EU	\checkmark	\checkmark
	Antimony and bromine contai	ning c	ompounds not intentionally added	\checkmark	\checkmark
¹ DE	LO standard 52 (acc. to DIN EN 10364:200)7/meth	od 6)		

	DELO-DUOPOX 2C epoxy adhesives	DELO-PUR 2C polyurethane adhesives		
AB8660	VE 23511	VE 24041 (future serial number: AB8486)	AD948	AD996
✓	1		√	
•	•	•	•	
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
		~		\checkmark
		√		√
\checkmark	\checkmark	√	\checkmark	~
gray/opaque	beige/opaque	whitish	beige	beige
2:1/1.81:1	1:1/1.05:1	1:1/1:1	1:1/1:1	1:1/1:1
inorganic	inorganic	inorganic	minerals	minerals
\checkmark	\checkmark			\checkmark
		\checkmark	\checkmark	
	approx. +23°C), possible accelerat			
od flowability during dispensing d non-sagging effect due to high thixotropy	pasty and easy handling	good flowability during dispensing and non-sagging effect due to high thixotropy	good flow behavior and low sagging effect, easy handling	pasty and easy handling
n.d.	92	94	81	70
20	< 8		15	9
		120		
4.5	0.4	6.5	2.5	1.5
7.5	2	12	6	4
25	20	24	21	23
25 (at +65 °C)	not determined	24	16	19
7	3.5 (at +80 °C)	4	6 (at +80 °C)	6 (at +80 °C)
2.5 (at 7d rt) 4.2 (at 2 h +65°C)	not determined	3.5	5	4.8
34	12	34	23	20
4.5	20 ²⁾	4	17	20
3,000	350	1,900	1,000	880
+106	+43	+86	+54	+68
3 months	3 months	9 months	9 months (vol./comp. < 1 l) 6 months (vol./comp. \ge 1 l)	12 months (vol./comp. < 1 10 months (vol./comp. ≥ 1
none	could be possible	also available in gray	could be possible	also available as black produ variant (DELO-PUR AD997)
200 ml, 20 l	200 ml, 20 l	200 ml, 20 l	200 ml, 20 l	620 ml, 20 l
-	🗸 4)		tested and qualified within specific compound within release process for AIMS 10-04-001	
-	-	-	AIMS 10-04-001	AIMS 10-04-001
\checkmark	\checkmark	\checkmark	\checkmark	\checkmark

	DELO-DUOPOX 2C epoxy adhesives	DELO-PUR 2C polyurethane adhesives		
AB8660	VE 23511	VE 24041 (future serial number: AB8486)	AD948	AD996
\checkmark	\checkmark	√	\checkmark	
\checkmark	\checkmark	✓	\checkmark	~
		~		~
		✓		~
\checkmark	\checkmark	✓	\checkmark	\checkmark
gray/opaque	beige/opaque	whitish	beige	beige
2:1/1.81:1	1:1/1.05:1	1:1/1:1	1:1/1:1	1:1/1:1
inorganic	inorganic	inorganic	minerals	minerals
\checkmark	\checkmark			\checkmark
		\checkmark	✓	
curing at room temperature (a	pprox. +23 °C), possible accelerat	ion by heat (e.g. +60 °C)		
ood flowability during dispensing d non-sagging effect due to high thixotropy	pasty and easy handling	good flowability during dispensing and non-sagging effect due to high thixotropy	good flow behavior and low sagging effect, easy handling	pasty and easy handling
n.d.	92	94	81	70
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34	12	34	23	20
4.5	20 ²⁾	4	17	20
3,000 +106	350 +43	1,900	1,000 +54	+68
3 months	3 months	+86 9 months	9 months (vol./comp. < 1 l)	12 months (vol./comp. < 1 l)
none	could be possible	also available in gray	6 months (vol./comp. ≥ 1 l) could be possible	10 months (vol./comp. ≥ 11 also available as black produ variant (DELO-PUR AD997)
200 ml, 20 l	200 ml, 20 l	200 ml, 20 l	200 ml, 20 l	620 ml, 20 l
-	🗸 4)	\checkmark		ithin specific compound ss for AIMS 10-04-001
_	-	-	AIMS 10-04-001	AIMS 10-04-001
✓	\checkmark	\checkmark	\checkmark	\checkmark

DELO standard 52 (acc. to DIN EN 10364:2007/method 6)

DELO standard 52 (acc. to DIN EN 10364:2007/method 6)
< 5 % elongation at tear after thermal aging
meets the requirements of the FST test according to b) CS/FAR Part 25 §25.853(a)(1)(ii) Amdt. 15/Amdt. 25-116 & ABD0031 (Resistance of Material to Flame, **12 s** Vertical Bunsen Burner Test)
(a) CS/FAR Part 25 §25.853(d) Amdt. 15/Amdt. 25-116 & ABD0031 (Specific Optical Density of Smoke)
(b) CS/FAR Part 25 §25.853(d) Components on Combustion Products)
(c) ABD0031 (Toxic Components on Combustion Products)
(c) ABD0031 (Resistance of Material to Flame, **12 s** Vertical Bunsen Burner Test)



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MATERIAL SELECTION GUIDE

Aircraft Interior



