

## Constructive two-component special adhesive for low-energy surfaces such as polyethylene (PE), polypropylene (PP), Teflon<sup>®</sup>, EPDM, etc.

## **Application areas**

Wisacoll PEPP 3000 is a two-part structural adhesive designed for use on substrates that are extremely difficult to bond

- was specially formulated for bonding (without pre-treatment) lowenergy plastics like polyethylene (PE), polypropylene (PP), PTFE (Teflon<sup>®</sup>), EPDM (ethylene-propylene-diene rubber)
- but materials that are easier to bond are also suitable like e.g.

Plastics	PVC, ABS, GRP, PA, PMMA, PBT, PET, PC, PS, but also PE, PP, PTFE and EPDM	
Composites	CFK, GRP, FPM, SMCs, gelcoat, polyurethane, polyester and epoxy	
Metals	aluminium, cast iron, steel, stainless steel, construction steel, copper, most painted and powder coated surfaces, hot-dip galvanised and galvanised metals	
Other materials	wood, glass, and many absorbent substrates treated with Wi-Primer V-01 or Wi-Primer V-07	

- ideal for automotive supply industry, solar engineering, electrical engineering, precision engineering, optics, machinery and apparatus engineering, for the assembly of parts and for a wide range of customised industrial and commercial applications
- **Product benefits**
- provides good adhesion where other adhesives may fail
- strong grip
- excellent impact, peel and shear strength
- good resistance to vibration
- good resistance against freshwater, saltwater and many chemicals
- no risk of corrosion
- sandable and drillable when cured
- can be levelled over with many adhesives and sealants
- paintable / recoatable and lacquerable

2C reaction adhesive based on hybrid acrylate Base

**Restrictions** 

Not recommended for polysulfones (PSU) and silicones. In addition, we recommend that you carry out sufficient tests of your own to determine the suitability of this product for your particular requirements. This applies in particular to soft surfaces, paintwork and unknown rubber compounds.

**Cleaning agents** Wisaclean R 216 for cleaning non-absorbent adhesive surfaces and fresh product residues. The cured product can normally only be removed mechanically. To wash your hands, please use water and soap.



Wisacoll<sup>®</sup> PEPP 3000



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## Technical Data Sheet

Wisacoll<sup>®</sup> PEPP 3000



Processing time	ca. 2.5 - 3 min (at +20 °C)					
Max. processing time in static mixer	<4 min. at +20 °C; the processing time is halved at approx. +30 °C and approx. doubled at +10 °C Within this time, the adhesive in the static mixer MUST be completely renewed to maintain perfect mixing. If the interruption of work is longer than this time, the static mixer must be replaced!					
1 <sup>st</sup> functional strength	from ca. 3 - 4 h (depending on application and temperature)					
Curing time	50 % final strength after ca. 2 h - 4 h, at +20 °C 100 % final strength after ca. 8 h - 24 h					
Gap filling capacity	ca. 0.2 -	3.0 m	m			
Recommended adhesive joint thickness	ca. 0.2 - 0.3 mm; optimum thickness of the adhesive layer is guaranteed by the integrated glass beads. However, it is possible to bridge larger gaps in the range of 1 mm - 3 mm.					
Breaking elongation	max. 5.3 % acc. to ASTM D638 / DIN ISO 6892					
Tensile strength	ca. 15 - 22 N/mm <sup>2</sup> acc. to ASTM D 1001					
Tensile shear strength	Materia	I	N/mm <sup>2</sup>	Material	N/mm <sup>2</sup>	
		erial fa	ca. 7.0 (M) ca. 5.0 (M) ca. 2.5 (M) ca. 7.5 (M) ca. 1.5 (A) ca. 14.1 (M) ca. 10.5 (M) nilure fracture (fracture in t racture (loss of adhe	•	ca. 6.5 (M) ca. 17.1 (K) ca. 17.2 (K) ca. 15.9 (K) ca. 15.7 (K) ca. 4.5 (M)	
Recoatability	UHMW LDPE PP PTFE PVC ABS M = Mat K = Coh A = Adh Can be paint sys The bor	erial fa esive f esive f sandeo stems.	ca. 5.0 (M) ca. 2.5 (M) ca. 7.5 (M) ca. 1.5 (A) ca. 14.1 (M) ca. 10.5 (M) nilure fracture (fracture in t racture (loss of adhe	GRP cold rolled steel stainless steel aluminium glass the adhesive) esion) after complete cross-link t be painted over until t	ca. 17.1 (K) ca. 17.2 (K) ca. 15.9 (K) ca. 15.7 (K) ca. 4.5 (M)	
Recoatability Film properties	UHMW LDPE PP PTFE PVC ABS M = Mat K = Coh A = Adh Can be paint sys The bor	erial fa esive f esive f sanded stems. ided wo ed. Sel	ca. 5.0 (M) ca. 2.5 (M) ca. 7.5 (M) ca. 7.5 (A) ca. 1.5 (A) ca. 14.1 (M) ca. 10.5 (M) silure fracture (fracture in t racture (loss of adhe d and painted over a orkpieces should no f-testing is necessa	GRP cold rolled steel stainless steel aluminium glass the adhesive) esion) after complete cross-link t be painted over until t	ca. 17.1 (K) ca. 17.2 (K) ca. 15.9 (K) ca. 15.7 (K) ca. 4.5 (M)	
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Film properties	UHMW LDPE PP PTFE PVC ABS M = Mat K = Coh A = Adh Can be paint sy: The bon fully cur tough-bu	erial fa esive f sandec stems. ded wo ed. Sel ut-flexil	ca. 5.0 (M) ca. 2.5 (M) ca. 7.5 (M) ca. 7.5 (M) ca. 1.5 (A) ca. 14.1 (M) ca. 10.5 (M) nilure fracture (fracture in t racture (loss of adhe d and painted over a prkpieces should no f-testing is necessan ole til +80 °C (after corr	GRP cold rolled steel stainless steel aluminium glass the adhesive) esion) after complete cross-link t be painted over until t ry.	ca. 17.1 (K) ca. 17.2 (K) ca. 15.9 (K) ca. 15.7 (K) ca. 4.5 (M)	
Film properties Temperature resistance	UHMW LDPE PP PTFE PVC ABS M = Mat K = Coh A = Adh Can be paint sy: The bon fully cur tough-bu	erial fa esive f sanded stems. ded wo ed. Sel ut-flexit 5 °C un	ca. 5.0 (M) ca. 2.5 (M) ca. 7.5 (M) ca. 7.5 (M) ca. 1.5 (A) ca. 14.1 (M) ca. 10.5 (M) nilure fracture (fracture in t racture (loss of adhe d and painted over a prkpieces should no f-testing is necessan ole til +80 °C (after corr	GRP cold rolled steel stainless steel aluminium glass the adhesive) esion) after complete cross-link t be painted over until t ry.	ca. 17.1 (K) ca. 17.2 (K) ca. 15.9 (K) ca. 15.7 (K) ca. 4.5 (M)	



Wisacoll<sup>®</sup> PEPP 3000



Substrates	Polyethylene (PE), polypropylene (PP), PTFE (Teflon <sup>®</sup> ), EPDM (ethylene- propylene-diene rubber), PVC, ABS, GRP, PA, PMMA, PBT, PET, PC or PS, CFK, GRP, FPM, SMCs, gelcoat, polyurethane, polyester and epoxy, aluminium, cast iron, steel, stainless steel, construction steel, most painted and powder coated surfaces, wood, glass and many absorbent substrates treated with Wi-Primer V-01 or Wi-Primer V-07. For other surfaces, own tests are required.					
Further information	You can find more information about this product (link to the product on our homepage, safety data sheet, certificates, special enquiries etc.) under the adjacent ISOPIN QR code.					
Colour	Binder (A-Compp	onent)	white			
	Hardeners (B-Co	mpponent)	creamy			
	Mixture		creamy			
Item no.	Wisacoll PEPP 3000.50					
Delivery form / Content	cartouches à 2 composants à ca. 50 ml / 48 g, CTN 10 pieces Larger containers on request.					
Shelf life	In closed original packaging, protected from direct sunlight and stored in a cool, dry place, ideally between +1 °C and +5 °C, the official shelf life is 12 months from date of production. The storage temperature must not fall below +0 °C. Higher temperatures reduce the shelf life. Over storage time, viscosity increases and reactivity decreases.					
Accessories	SM.25-50.SU	Static mixed bayonet loc	r for 2C syringes k			

**Safety and disposal:** Familiarise yourself with the valid Safety Data Sheets (SDS) for the products used. All applicable safety regulations and disposal instructions must be observed.

**Observe:** All information is based on careful examinations in the labs and our previous practical experience. They are noncommittal notes. Due to the many materials that are marketed and the different processing methods, which we cannot influence, we can, of course, not assume any warranty, including under patent-law, for the result of your work. We recommend performing sufficient own tests to find out if the product meets the respective requirements. In addition, we refer to our terms and conditions of sale, delivery and payment, available at www.wisabax.ch/agb.html. © Wisabax AG - This technical data sheet replaces all older versions.

Have you noticed an unclear formulation or an error? Thank you for your feedback. In case of doubt, the German version of the technical data sheet applies.

