



# TURBO PU REPAIR L.E.

Low hazardous, very fast curing, easy to use structural 2-part polyurethane adhesive specially designed for small, quick, durable bonding and repairs on plastics and many other substrates.



## Features & Benefits

- Not H351 classified - Low hazardous, not carcinogenic
- Bonds most plastics, metals, wood, etc - universal
- 30 seconds open time - fast curing
- Excellent filling properties - doesn't sag while curing
- Doesn't bubble while curing - neat finish
- Doesn't peel off - easy sanding
- Very good flexibility - doesn't crack
- Ultra small mixing nozzles - less waste of product

P/N	Product	S/C	Packaging
86703	Turbo PU Repair L.E.	TPRLE	50 ml cartridge + 2 mixing nozzles
86392	6 mixing nozzles	TPRN6	6 mixing nozzles
86393	50 mixing nozzles	TPRN50	50 mixing nozzles
86659	2K Dispenser gun	2KDG50	1 piece

## Application

Turbo PU Repair L.E. allows small repairs to be made in a very limited time, such as filling small cracks, holes and scratches, but also small assembly operations. Bonds most plastics, metals, wood, etc.

## Instructions for use

1. Clean repair area with KENT Acrysol or Soft Surface Cleaner and allow to dry.
2. Using 80 grit wet / dry disc, sand both the surrounding areas of the repair.
3. Re-clean repair areas with KENT Acrysol or Soft Surface Cleaner and allow to dry.
4. For more difficult-to-bond plastics, apply KENT Plastic Adhesion Promoter in several thin cross layers to both sides of the repair and allow to dry.
5. Place the opened cartridge in the dispenser and purge until material starts to flow from both cartridge chambers. Fit the supplied mixer tip to the cartridge, extrude and dispose of first 2 – 3 cm of product then directly proceed with the repair. The material in the mixer will become very difficult or impossible to dispense at about 20 seconds after starting to extrude, in which case a new mixer tip should be used.
6. For an assembly operation, bring both components together and apply uniform pressure within 20 - 25 seconds. Clamping time is approx. 2 minutes at 23°C, after which a tensile strength of 1.5N/mm<sup>2</sup> is achieved. For a scratch or crack repair, spread the bead over the scratch or the crack within 20 - 25 seconds respecting a thickness of max. 3 - 4 mm. The thinner the layer, the slower the product will cure.
7. After 5 - 10 minutes depending on temperature, sand the repair area to a smooth finish if required. Avoid excessive speed, care must be taken not to overheat the plastic.
8. Allow 1 hour at 23°C between product application and painting. More waiting time is needed at lower temperatures.
9. Removal of Turbo PU Repair – uncured material may be removed from tools and equipment with KENT Acrysol. Within the first hour, the repair can be removed by peeling it off. Once fully cured, it's almost impossible to remove.

N.B.: The curing speed can be slowed down by applying Turbo PU Repair in thinner beads/layers.

Curing time will vary according to ambient temperature (cold = slower, hot = faster)

Always store an open cartridge with mixer tip in place.



## Technical Information

<b>Base material:</b>	Reactive polyurethane mixture
<b>Consistency:</b>	Sag resistant paste
<b>Colour:</b>	Black (Part A and B mixed)
<b>Shelf Life:</b>	24 months
<b>Custom tariff code:</b>	3506 9900
<b>VOC:</b>	0 g/l

<b>Cure mechanism:</b>	Mixing parts A and B	<b>Application temp:</b>	+10°C to +30°C
<b>Specific gravity:</b>	Part A: 1.24 g/ml Part B: 1.29 g/ml	<b>Temp resistance :</b>	- 30°C to +100°C
<b>Open time:</b>	30 seconds (23°C)	<b>Tensile strength:</b>	26 MPa (ISO 527)
<b>Clamp / fixture time:</b>	Approx. 2 min. (23°C)	<b>Shear strength:</b>	13.5 MPa (Colled rolled steel)
<b>Sanding time:</b>	Approx. 5 min. (23°C)	<b>Elongation at break:</b>	58 % (ISO 527)
<b>Paint over time:</b>	Approx. 60 min. (23°C)	<b>Glass transition temperature</b>	65°C (ISO 11357)
<b>Full cure:</b>	24 hours (23°C)		
<b>Shore D:</b>	65 (ISO 868)		

### Chemical Resistance

<b>Sulphuric acid 24%:</b>	Good (battery acid)
<b>Hydrochloric acid 37%:</b>	Fair / good
<b>Ketones:</b>	Fair
<b>Diesel:</b>	Excellent
<b>Petrol:</b>	Excellent
<b>Alcohol:</b>	Excellent
<b>Glycols:</b>	Excellent

<b>Water:</b>	Excellent
<b>Salt water:</b>	Excellent
<b>Brake fluids:</b>	Very good
<b>Motor Oils:</b>	Excellent

Information provided here is for reference only. The bonds tested were under laboratory conditions. Adhesive performance depends upon the specific chemicals tested, substrates bonded, surface preparation and environmental conditions in processing.



SDS available on [www.kent europe.com](http://www.kent europe.com)

#### Terms and Conditions

No part of this publication may be reproduced, transmitted or stored, electronically, mechanically or photocopied without the prior permission of KENT (United Kingdom) Ltd. This data sheet and its contents (the "Information") belong to the KENT (United Kingdom) Ltd or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted.

The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error from or omission in it nor for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including

liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence KENT is the trading name of KENT (United Kingdom) Ltd

**Registered Office:** Amber House,  
Showground Road, Bridgewater, Somerset, United Kingdom TA6 6AJ  
All rights reserved.

**KENT (United Kingdom) Ltd, Forsyth House, Pitreavie Drive, Pitreavie Business Park, Dunfermline, Fife KY11 8US** Tel : 0800 136925 or 01383 723344 between 08:30-17:30  
Monday-Thursday, 09:00-15:00 on Fridays'. For out of hours queries please Fax us on 01383 735829 or Email: [kentinfo.uk@kent europe.com](mailto:kentinfo.uk@kent europe.com)

Rev: 30/07/20