

PRP21

TWO-PART METHACRYLATE ADHESIVE

- Excellent shear, peel and impact strength over a wide temperature range
- Non sagging thixotropic formulation
- Will fill gaps of up to 5 mm
- Over paintable
- Resistant to weathering and humidity
- Room temperature cured with short open time
- No surface preparation 100% reactive
- Very good UV-resistance and excellent ageing properties
- Isocyanate-, phthalates-, solvent-, PVC- and silicone free.



Notice

All information including images are given with the greatest care. Still, it is appropriate to users regardless of the test the suitability of each product for their own purposes. Tech-Masters is not liable for the completeness and accuracy of information and refuses warranty for your specific use. The guarantee, which Tech-Masters products provide, relates only to the standard conditions of sale of this product. In no case Tech-Masters can be held responsible for incidental damages, or damages for improper use or sale of the product to another customer.

POWER REPAIR 21

General Information

POWER-REPAIR 21 is a two-part methacrylate adhesive designed for structural bonding of thermoplastic, metal and composite assemblies. POWER-REPAIR 21 is Isocyanate-, phthalates-, solvent-, PVC- and silicone free. POWER REPAIR 21 can be over-painted with most types of lacquers.

Combined at a 1:1 ratio, it has an open time of 4 to 6 minutes and achieves 75% of ultimate strength in 10 to 20 minutes at room temperature (23°C). POWER-REPAIR 21 offers a combination of high strength and stiffness as well as the ability to bond a wide range of materials.

Technical Information

ADHESIVE:
 Aggregate State: Paste
 Colour: yellow/black
 Odour: characteristic
 Flammability: Combustible
 pH: 4,5 - 5,5
 Initial boiling point and boiling range: 101 °C
 Flash point: 10 °C
 Upper/lower flammability or explosive limits: 2,1 - 12 Vol-%
 Vapour pressure: 28 mm Hg (20 °C)
 Vapour density: 3,5
 Relative density: 0,96 (20 °C)
 Dynamic viscosity: 55 Pa* s
 Temperature resistance: -40°C - 125°C
 Tensile strength: 24 Mpa
 Open time: 4-6 min
 Working time: 12-15 min
 Curing time: approx. 20 min on 23°C
 Complete curing: after 24 hours on 23°C

ACTIVATOR:
 Aggregate State: Paste
 Colour: whitish
 Odour: characteristic
 Flammability: Combustible
 pH: 3,5 - 5,5
 Initial boiling point and boiling range: 101 °C
 Flash point: 10 °C
 Upper/lower flammability or explosive limits: 2,1 - 12 Vol-%
 Vapour pressure: 28 mm Hg (20 °C)
 Vapour density: > 1
 Relative density: 1,03 (20 °C)
 Dynamic viscosity: 40000 - 60000 cP (25 °C)
 UV- and weather resistance: Excellent
 Grit blasted steel to grit blasted steel - 100% strength retained.
 Storage: All adhesives should be stored unopened in a cool, dry place (between 5°C and 25°C) when not used for a long period of time.
 This product should never be frozen!

Application and Use

- The surfaces to be bonded should be clean, dry and free from dust and grease.
 Application temperature: Between 15 °C and 25° C.
 In case of doubt of the substrate that must be bonded, test the strength on a small sample of the substrate.
- Mixing:
 Mixing Ratio: 1:1
 Connect the mixertip to the cartridge and press out 2 cm (do not use) to be sure that you have a 100% mixture of the 2 components.
 PLEASE NOTE: Once the product cures in the nozzle it has to be thrown away and a new nozzle used.
- Assembling:
 Open time 4 - 6 minutes @ 23°C.
 After applying the adhesive, assembly the parts (within open time) and immediately clamp or press.
 Movement of the part after the working time has expired can result in bond strengths lower than normal. Ensure that the assembly remains undisturbed until fixture has occurred.
- Curing:
 Curing time: ca. 20 minutes @ 23°C.
 Complete curing: 24 hours @ 23°C.
 Temperatures higher or lower than 23°C will have influence on the open time and curing time.
 The viscosity's of Parts A and B of this adhesive are affected by temperature.

Article nr	Name	Content	Shelf Life	Catalog
T911200	Power Repair 21 creme 5 min.	50ml	see imprint + 12 months	ADHESIVES AND SEALANTS
T911205	Power Repair 21 black 5 min.	50ml	see imprint + 12 months	ADHESIVES AND SEALANTS
T911400	Power Repair 21 creme 5 min.	400ml	see imprint + 13 months	ADHESIVES AND SEALANTS

