

Technical Data Sheet

General

Article number: 90672259

Description: 2K Plastic Adhesive
Fast 1.5 minutes
(Black) 50 ml



Specifications

1.5 minutes fast curing. Powerful 2-component (2K-PU) plastic adhesive. For all-purpose structural bonding of plastic parts. Resistant to exposure to elevated temperature, moisture, fuel, many solvents and chemicals. Repair a variety of plastic parts. For small - medium sized repairs with durable bonding and repair jobs. Colour Black. Cartridge of 50 ml. Per piece, with 2 mixing tips.

Application

- Small - medium sized repairs.
- Repair a variety of plastic interior and exterior parts.
- Structural and cosmetic repair of bumpers, panel clips, radiator grills, headlights brackets etc.
- Cure response is NOT depending on the thickness of the applied adhesive as with most other Polyurethane systems.
- In any industry where a fast strong bond is demanded.
- Excellent bond of many different substrates like plastics, metal, GRP, ceramics, wood etc.

Features & Benefits

- Sandable in 10 minutes.
- Excellent adhesion on most plastics.
- No smell. Fast cure.
- Excellent gap filling properties.
- Cure response is NOT depending on the thickness of the applied adhesive as with most other Polyurethane systems.
- Easy to sand.
- Stays flexible even under cooler conditions.

Technical specifications

- Colour: Black
- Packing: 50 ml
- Packing unit: 6 pieces per box
- Store: Cool and dry, between +15°C and +32°C;
(After opening leave the used mixer tip attached to ensure sealing from humidity, remainder can still be used.)
- Shelf life: 24 months.
- Technical data:
 - Open time*: 1.5 minutes
 - Handling time*: 5 minutes
 - Sanding time*: 10 minutes

Paint time*: (* at 23°C)	10 minutes
Cure	Ambient or heat accelerated cure (max 120°C)
Optimum Bondline Thickness:	0.5 mm to 1.5 mm
Maximum Bondline Thickness:	± 5 mm
Paint Bake:	max 150°C
Tensile strength MPa @ 23°C:	26 (ASTM D-638)
Young's Modulus MPa @ 23°C:	1102 (ASTM D-638)
Elongation %:	65 (ASTM D-638)
Shore Hardness D:	69 (ASTM D-2240)
Shrinkage %:	<1.0 (ASTM C-733)

Substrate Range

Substrate	Surface preparation	General Adhesion
SMC, BMC, RTM, Gel Coat, Wood, HPL, PUR-RIM	Sanding	Excellent
Carbon Fiber Reinforced Plastics (CFRP)	Sanding or peel ply	Excellent
Coated or primed Metals and Metal alloys**	None	Excellent
HLU (Hand lay up) , HSU (Hand spray up)	Sanding	Good
Thermoplastics A (ABS, PA, PC/PBT, PPO/PA, PET)	Sanding or solvent wipe	Very Good
Thermoplastics B (PPO, PC/ABS, PP/EPDM)	Solvent, detergent or primer	Good / Fair
Thermoplastics C (PTFE, PP, PE, PVC, PPS, POM)	Physical pre-treatment (flame, plasma, corona)	Limited

Substrate Preparation and processing

- The surface has to be clean, and free of dust, oil and grease.
- Attach the Mixer Tip on top.
- Press out some product (± 25 – 50 mm) To make sure that the product is properly mixed.
- Pull the trigger of the 2K Manual Gun at a constant force for an even layer of adhesive.
- Make sure that the top of the Mixer Tip is always in the product, this prevents air from enclosing in the adhesive. Which will form air bubbles when applied.
- When cured (read technical information) sand and refinish when needed.
- After finishing leave the mixer tip in place.
- When using again, remove the mixer tip. Carefully clean the cartridge nozzle. (The products in the two chambers must be cleanly separated.) Attach a new mixer tip and start a new job.

Paintability

Paintable with the most car repair 1K and 2K paints. Due to the diversity of varnishes and paints we recommend preliminary tests.

Suggested repair process of a crack (example):

1. Clean with Colad Plastic Cleaner.
2. Model the part and sand it.
3. Apply Colad Plastic Primer to improve the adhesion.
4. Drill and countersink when possible/needed. (user consideration)
5. Cut Contour Film/Reinforcement Film. Apply the adhesive on the film.
6. Apply the film and adhesive. Place at the back of the damaged area. Press softly, spread out evenly.
7. Sand and refinish. Read for more technical information the Technical Data Sheet.

Related products

Article number: 90672666

Description: Gun for 2K Plastic Adhesive Manual

Article number: 90672980/90672981

Description: Mixing Tips Plastic Repair

Disclaimer Technical Data Sheet & Material Safety Data Sheet

It is the responsibility of the user to read understands and apply the information of the TDS. The information about work and environmental safety is available on the material safety data sheet via www.colad.co. It is the responsibility of the user to read and apply the information.

Notice

Products are for professional use. The adhesive could be harmful if improperly handled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

The repairs should always be done in accordance with the OEM rules and specifications.

All information is for the user's consideration, investigation and verification. The specific use applications and conditions of use are beyond the control of EMM International B.V. It is the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

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Technical Data Sheet

<p>General</p> <p>Article number: 90672240</p> <p>Description: 2K Plastic Adhesive Medium Fast 3.5 minutes (Black) 50 ml</p>	
<p>Specifications</p> <p>3.5 minutes medium curing. Powerful 2-component (2K-PU) plastic adhesive. For all-purpose structural bonding of plastic parts. Bonds, fills and repairs small to medium sized cracks and holes of F.I. plastic bumpers and spoilers. Resistant to exposure to elevated temperature, moisture, fuel, many solvents and chemicals. Colour Black. Cartridge of 50 ml. Per piece, with 2 mixing tips.</p> <p>Application</p> <ul style="list-style-type: none"> • Bonds, fills and repairs small to medium sized cracks and holes in plastic bumpers and spoilers. • Structural and cosmetic repairs of a variety of plastic parts. • In any industry where a fast strong bond is demanded. • Also, excellent bond of many different substrates like plastics, metal, GRP, ceramics, wood etc. <p>Features & Benefits</p> <ul style="list-style-type: none"> • One product for structural bonding, filling and repairing. • Handling time is suitable for medium sized repairs of F.I. cracks and holes in bumpers. • Easy to sand. • Stays flexible even under cooler conditions. • Faster and stronger than plastic welding and stapling. • No smell, superior ambient cure. • Excellent gap filling properties. • Cure response is NOT depending on the thickness of the applied adhesive as with most other Polyurethane systems. <p>Technical specifications</p> <ul style="list-style-type: none"> • Colour: Black • Packing: 50 ml • Packing unit: 6 units per box • Store: Cool and dry, between +15°C and +32°C; (After opening leave the used mixer tip attached to ensure sealing from humidity, remainder can still be used.) • Shelf life: 24 months • Technical data <ul style="list-style-type: none"> Open time*: 3.5 minutes Handling time*: 15 minutes Sanding time*: 30 minutes Paint time*: 30 minutes (* at 23°C) Cure: Ambient or heat accelerated cure (max 120°C) Optimum Bondline Thickness: 0.5 mm to 1.5 mm Maximum Bondline Thickness: ± 5 mm 	

Paint Bake:	max. 150°C
Tensile strength MPa @ 23°C:	26 (ASTM D-638)
Young's Modulus MPa @ 23°C:	1102 (ASTM D-638)
Elongation %:	65 (ASTM D-638)
Shore Hardness D:	69 (ASTM D-2240)
Shrinkage %:	<1.0 (ASTM C-733)

Substrate Range

Substrate	Surface preparation	General Adhesion
SMC, BMC, RTM, Gel Coat, Wood, HPL, PUR-RIM	Sanding	Excellent
Carbon Fiber Reinforced Plastics (CFRP)	Sanding or peel ply	Excellent
Coated or primed Metals and Metal alloys**	None	Excellent
HLU (Hand lay up) , HSU (Hand spray up)	Sanding	Good
Thermoplastics A (ABS, PA, PC/PBT, PPO/PA, PET)	Sanding or solvent wipe	Very Good
Thermoplastics B (PPO, PC/ABS, PP/EPDM)	Solvent, detergent or primer	Good / Fair
Thermoplastics C (PTFE, PP, PE, PVC, PPS, POM)	Physical pre-treatment (flame, plasma, corona)	Limited

Substrate preparation and processing

- The surface has to be clean, and free of dust, oil and grease.
- Attach the Mixer Tip on top.
- Press out some product (\pm 25 – 50 mm) To make sure that the product is properly mixed.
- Pull the trigger of the 2K Manual Gun at a constant force for an even layer of adhesive.
- Make sure that the top of the Mixer Tip is always in the product, this prevents air from enclosing in the adhesive. Which will form air bubbles when applied.
- When cured (see technical information) sand and refinish when needed.
- After finishing leave the mixer tip in place.
- When using again, remove the mixer tip. Carefully clean the cartridge nozzle. (The products in the two chambers must be cleanly separated.) Attach a new mixer tip and start a new job.

Paintability

Paintable with the most car repair 1K and 2K paints. Due to the diversity of varnishes and paints we recommend preliminary tests.

Suggested repair process of a crack (example):

1. Clean with Colad Plastic Cleaner.
2. Model the part and sand it.
3. Apply Colad Plastic Primer to improve the adhesion.
4. Drill and countersink when possible/needed. (user consideration)
5. Cut Contour Film/Reinforcement Film. Apply the adhesive on the film.
6. Apply the film and adhesive. Place at the back of the damaged area. Press softly, spread out evenly.
7. Sand and refinish. Read for more technical information the Technical Data Sheet.

Related products Colad

Article number: 90672666

Description: Gun for Plastic Adhesive Manual

Article number: 90672980/90672981

Description: Mixing Tips Plastic Repair

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Notice

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Technical Data Sheet

<p>General</p> <p>Article number: 90672241</p> <p>Description: 2K Plastic Adhesive Slow 5 minutes (Transparent) 50 ml</p>																									
<p>Specifications</p> <p>5 minutes slow curing. Powerful 2-component (2K-PU) plastic adhesive. For all-purpose structural bonding of plastic parts. For both small and medium sized repairs. Can be used on light colored or transparent plastic parts. Resistant to exposure to elevated temperature, moisture, fuel, many solvents and chemicals. Colour Transparent. Cartridge of 50 ml. Per piece, with 2 mixing tips.</p> <p>Application</p> <ul style="list-style-type: none"> • Light coloured or transparent plastic parts. • Bonds, fills and repairs small to medium sized cracks and holes in plastic bumpers and spoilers. • Structural and cosmetic repairs of a variety of plastic parts. • Any industry where a fast strong bond is demanded. • Also, excellent bond of many different substrates like plastics, metal, GRP, ceramics, wood etc. <p>Features & Benefits</p> <ul style="list-style-type: none"> • Transparent • One product for structural bonding, filling and repairing. • Work time suitable for medium sized repairs of cracks and holes in bumpers. • Faster and stronger than plastic welding and stapling. • No smell. Superior ambient cure. • Excellent gap filling properties. • Cure response is NOT depending on the thickness of the applied adhesive as with most other Polyurethane systems. • Easy to sand. • Stays flexible even under cooler conditions. <p>Specification:</p> <table border="0"> <tr> <td>• Colour:</td> <td>Transparent</td> </tr> <tr> <td>• Packing:</td> <td>50 ml</td> </tr> <tr> <td>• Packing unit:</td> <td>6 units per box</td> </tr> <tr> <td>• Store:</td> <td>Cool and dry, between +10°C and + 25°C; (After opening leave the used mixer tip attached to ensure sealing from humidity, remainder can still be used until total shelf life.)</td> </tr> <tr> <td>• Shelf life:</td> <td>12 months</td> </tr> <tr> <td>• Technical data</td> <td></td> </tr> <tr> <td> Open time*:</td> <td>5 minutes</td> </tr> <tr> <td> Handling time*:</td> <td>20 minutes</td> </tr> <tr> <td> Sanding time*:</td> <td>45 minutes</td> </tr> <tr> <td> Paint time*:</td> <td>45 minutes</td> </tr> <tr> <td> (* at 23°C)</td> <td></td> </tr> <tr> <td> Cure</td> <td>Ambient or heat accelerated cure (max 120°C)</td> </tr> </table>		• Colour:	Transparent	• Packing:	50 ml	• Packing unit:	6 units per box	• Store:	Cool and dry, between +10°C and + 25°C; (After opening leave the used mixer tip attached to ensure sealing from humidity, remainder can still be used until total shelf life.)	• Shelf life:	12 months	• Technical data		Open time*:	5 minutes	Handling time*:	20 minutes	Sanding time*:	45 minutes	Paint time*:	45 minutes	(* at 23°C)		Cure	Ambient or heat accelerated cure (max 120°C)
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Optimum Bondline Thickness: 0.5 mm to 1.5 mm
Maximum Bondline Thickness: ± 5 mm

Substrate preparation and processing

- The surface has to be clean, and free of dust, oil and grease.
- Attach the Mixer Tip on top.
- Press out some product (± 25 – 50 mm) To make sure that the product is properly mixed.
- Pull the trigger of the 2K Manual Gun at a constant force for an even layer of adhesive.
- Make sure that the top of the Mixer Tip is always in the product, this prevents air from enclosing in the adhesive. Which will form air bubbles when applied.
- When cured (see technical information) sand and refinish when needed.
- After finishing leave the mixer tip in place.
- When using again, remove the mixer tip. Carefully clean the cartridge nozzle. (The products in the two chambers must be cleanly separated.) Attach a new mixer tip and start a new job.

Paintability

Paintable with the most car repair 1K and 2K paints. Due to the diversity of varnishes and paints we recommend preliminary tests.

Suggested repair process of a crack (example):

1. Clean with Colad Plastic Cleaner.
2. Model the part and sand it.
3. Apply Colad Plastic Primer to improve the adhesion.
4. Drill and countersink when possible/needed. (user consideration)
5. Cut Contour Film/Reinforcement Film. Apply the adhesive on the film.
6. Apply the film and adhesive. Place at the back of the damaged area. Press softly, spread out evenly.
7. Sand and refinish. Read for more technical information the Technical Data Sheet.

Related products Colad

Article number: 90672666

Description: Gun for 2K Plastic Adhesive Manual

Article number: 90672980/90672981

Description: Mixing Tips Plastic Repair

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Technical Data Sheet

<p>General</p> <p>Article number: 90672258</p> <p>Description: 2K Plastic Adhesive Super Fast 30 Seconds (Black) 50 ml</p>	
<p>Specifications</p> <p>30 Seconds Super-Fast curing. Powerful 2-component (2K-PU) plastic adhesive. For all-purpose structural bonding of plastic parts. Resistant to exposure to elevated temperature, moisture, fuel, many solvents and chemicals. Specially designed for small, quick, durable bonding and repair jobs. Colour Black. Cartridge of 50 ml. Per piece, with 2 mixing tips.</p> <p>Application</p> <ul style="list-style-type: none"> • Small, quick repairs. • Holds parts in position. • Repair a variety of plastic parts. • For instance; Mouldings, bumper tabs, emblems and other basic cosmetic and structural repairs. • In any industry where a fast strong bond is demanded. • Also, excellent bond of many different substrates like plastics, metal, GRP, ceramics, wood etc. <p>Features & Benefits</p> <ul style="list-style-type: none"> • Sandable in 5 minutes! • Excellent adhesion almost all plastics. • No smell. Fast cure. • Superior ambient cure response. • Excellent gap filling properties. • Cure response is NOT depending on the thickness of the applied adhesive as with most other Polyurethane systems. • Easy to sand. • Stays flexible even under cooler conditions. <p>Technical specifications</p> <ul style="list-style-type: none"> • Colour: Black • Packing: 50 ml • Packing unit: 6 pieces per box. • Store: Cool and dry, between +15°C and +32°C; (After opening leave the used mixer tip attached to ensure sealing from humidity, remainder can still be used.) • Shelf life: 24 months • Technical data 	

Open time*:	30 seconds
Handling time*:	2.5 minutes
Sanding time*:	5 minutes
Paint time*:	5 minutes
<i>(* at 23°C)</i>	
Cure	Ambient or heat accelerated cure (max 120°C)
Optimum Bondline Thickness	0.5 mm to 1.5 mm
Maximum Bondline Thickness	± 5 mm
Paint Bake	max 150°C
Tensile strength, MPa @ 23°C	24.8 (ASTM D-638)
Young's Modulus, MPa @ 23°C	1775 (ASTM D-638)
Elongation, %	46 (ASTM D-638)
Shrinkage, %	<1.0 (ASTM C-733)

Substrate Range

Substrate	Surface preparation	General Adhesion
SMC, BMC, RTM, Gel Coat, Wood, HPL, PUR-RIM	Sanding	Excellent
Carbon Fiber Reinforced Plastics (CFRP)	Sanding or peel ply	Excellent
Coated or primed Metals and Metal alloys**	None	Excellent
HLU (Hand lay up) , HSU (Hand spray up)	Sanding	Good
Thermoplastics A (ABS, PA, PC/PBT, PPO/PA, PET)	Sanding or solvent wipe	Very Good
Thermoplastics B (PPO, PC/ABS, PP/EPDM)	Solvent, detergent or primer	Good / Fair
Thermoplastics C (PTFE, PP, PE, PVC, PPS, POM)	Physical pre-treatment (flame, plasma, corona)	Limited

Substrate Preparation and processing.

- The surface has to be clean, and free of dust, oil and grease.
- Attach the Mixer Tip on top.
- Press out some product (± 25 – 50 mm) To make sure that the product is properly mixed.
- Pull the trigger of the 2K Manual Gun at a constant force for an even layer of adhesive.
- Make sure that the top of the Mixer Tip is always in the product, this prevents air from enclosing in the adhesive. Which will form air bubbles when applied.
- When cured (read technical information) sand and refinish when needed.
- After finishing leave the mixer tip in place.
- When using again, remove the mixer tip. Carefully clean the cartridge nozzle. (The products in the two chambers must be cleanly separated.) Attach a new mixer tip and start a new job.

Paintability.

Paintable with the most car repair 1K and 2K paints. Due to the diversity of varnishes and paints we recommend preliminary tests.

Related products Colad

Article number: 90672666

Description: Gun for 2K Plastic Adhesive Manual

Article number: 90672980/90672981

Description: Mixing Tips Plastic Repair

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Notice

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Technical Data Sheet

<p>General</p> <p>Article number: 90672270</p> <p>Description: Plastic Cleaner (500 ml)</p>	
<p>Specifications</p> <p>Excellent cleaning and degreasing of plastics. Quickly removes grease, oil, sanding dust, insects, and silicon residue. Water-based. Spray bottle of 500 ml.</p> <p>Specification</p> <ul style="list-style-type: none"> - Colour: Transparent - Contents: 500 ml in sprayer container - Packing: 6 pieces in a box - PH: ca. 12 - Solvable in water: Complete - Flammable: No 	
<p>Application</p> <p>Cleaning and degreasing of plastics before bonding. The Plastic Cleaner improve the adhesion of structural adhesives.</p> <p>Instructions for use</p> <ul style="list-style-type: none"> • Spray a thin layer on the surface from a distance of 30 cm and process it for 1 minute. • Clean the surface with a good absorbing, clean non-fluffy degreasing cloth. • Then take another piece of clean cloth and then wipe again in one direction. • Apply in strictly necessary quantities to avoid drippings and waste of product. <p>Remarks</p> <ul style="list-style-type: none"> • Before applying to the surface always check on the tolerance of the substrate. • Irritating to eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. • This material and its container must be disposed of in a safe way. •  Irritant. 	
<p>Related products Colad</p> <p>Article number: 90672258/90672259/90672240/90672241</p> <p>Description: 2K Plastic Adhesives: Super Fast 30 seconds, Fast 1.5 Minutes, Medium Fast 3.5 Minutes and Slow 5 Minutes.</p>	

Article number: 90672267

Description: Plastic Primer

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Technical Data Sheet

<p>General</p> <p>Article number: 90672267</p> <p>Description: Plastic Primer (200 ml)</p>	
<p>Specifications</p> <p>Primer Plastic spray is a compound for the preparation of plastic surfaces, made of resins dispersed in solvents. It improves the adhesion of structural products scientifically on thermoplastic materials such as PMMA, SAN, ABS, PP,PA, TPU, rigid PVC and CA.</p> <p>Characteristics</p> <p>Appearance: Aerosol Colour: Transparent colourless. Density: 0.86 kg/L (+/- 0.04, at 20°C (liquid stage)). Propellant: G.P.L. (propane / butane). Flammability: Extremely flammable.</p>	
<p>Modes of use</p> <p>Shake well before use. Spray a thin uniform layer of product directly into the interested parts to be stuck on, keeping the aerosol bomb in a vertical position. The product favours a subsequent effective adhesion of paints, glues, inks. Apply in strictly necessary quantities to avoid drippings and waste of product. Wait for at least 5 minutes (23°C) before applying the adhesive.</p> <p>Note</p> <p>To avoid problems of incompatibility, we recommended to use the complete product range for the repair of plastic materials.</p> <p>Professional use only</p> <p>Read and observe the safety directions indicated on the label of the container. As to the information concerning handling, transport, etc. make reference to the Safety Data Sheet of the product in question. The information contained in the present document refers to knowledge of the product when drawing-up the above-mentioned compilation. Considering, however, the many possible uses and interferences by elements not depending on the producer, it is impossible to undertake any responsibility as to the quoted indications.</p>	
<p>Related products Colad</p> <p>Article number: 90672258/90672259/90672240/90672241 Description: 2K Plastic Adhesives: Super Fast 30 seconds, Fast 1.5 Minutes, Medium Fast 3.5 Minutes and Slow 5 Minutes.</p> <p>Article number: 90672270 Description: Plastic Cleaner</p>	

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Technical Data Sheet

<p>General</p> <p>Article number: 90675436</p> <p>Description: Windscreen Primer (100 ml)</p>	
<p>Specification</p> <p>Adhesion promotor for a strong bond. Universally usable for non-absorbent substrates. Materials e.g. glass, ceramics, metal, as well as various plastics.</p> <ul style="list-style-type: none"> - Colourless MS-hybrid primer - Packing: 100 ml - Packing unit: 6 units per box - Storage: dry and cool - Shelf life: 12 months, unopened original packaging. - Materials: Glass. Also ceramics, metal, as well as various plastics - Odour: Characteristically as solvent - Viscosity: Low-viscous - Appearance: Liquid, transparent - Density: 0.808 +/- 0.02 g/ml - Lower working temperature: +5°C - Drying time: at least 10 minutes, max. 2 hours at 20°C <p>Application</p> <ul style="list-style-type: none"> - Surface has to be clean, fat-free and dry. - Apply in thin shift, according to the surface. - The indicated drying times are to be kept. - Adhesion Promoter spilled or unintentionally applied must be wiped off immediately. - After drying the Adhesion Promoter can only hardly be removed. For this reason, covering the surfaces around the joints with tape is urgently recommended. - Take further safety information from the security data sheet and the print on the packaging. 	
<p>Related products Colad</p> <p>Article number: 90673719</p> <p>Description: Windscreen Adhesive MS Polymer</p>	
<p>Disclaimer Technical Data Sheet & Material Safety Data Sheet</p> <p>It is the responsibility of the user to read understands and apply the information of the TDS. The information about work and environmental safety is available on the material safety data sheet via www.colad.co. It is the responsibility of the user to read and apply the information.</p> <p>Notice</p> <p>Products are for professional use. The adhesive could be harmful if improperly handled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. The repairs should always be done in accordance with the OEM rules and specifications. All information is for the user's consideration, investigation and verification.</p>	

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Technical Data Sheet


<p>General</p> <p>Article number: 90672275</p> <p>Description: Contour Film</p>	
<p>Specification</p> <p>Helps shaping adhesive on plastic parts. The foil restores the original shape of the surface. One piece per roll.</p> <ul style="list-style-type: none"> - Place at the back side of a damaged plastic part with Colad 2K Plastic Adhesive. - Dimensions: 360 cm x 12 cm. - Packing: on roll 	
<p>Related products Colad</p> <p>Article number: 90672240 Description: 2K Plastic Adhesive, Medium Fast 3.5 Minutes</p> <p>Article number: 90672241 Description: 2K Plastic Adhesive, Slow 5 Minutes</p>	
<p>Disclaimer Technical Data Sheet & Material Safety Data Sheet</p> <p>It is the responsibility of the user to read understands and apply the information of the TDS. The information about work and environmental safety is available on the material safety data sheet via www.colad.co. It is the responsibility of the user to read and apply the information.</p> <p>Notice</p> <p>Products are for professional use. The adhesive could be harmful if improperly handled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. The repairs should always be done in accordance with the OEM rules and specifications. All information is for the user's consideration, investigation and verification. The specific use applications and conditions of use are beyond the control of EMM International B.V. It is the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.</p>	
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Technical Data Sheet


<p>General</p> <p>Article number: 90672276</p> <p>Description: Reinforcement Film</p>	
<p>Specification</p> <p>Designed for quickly shaping and strengthen a damaged plastic area of cracks and holes. Achieves a strong and smooth surface. One piece per roll.</p> <ul style="list-style-type: none"> - For reinforcement of the back side of a damaged plastic part, equipped with a gauze. - Dimensions: 360 cm x 12 cm. - Packing: on roll 	
<p>Related products Colad</p> <p>Article number: 90672240 Description: 2K Plastic Adhesive - Medium Fast 3.5 Minutes</p> <p>Article number: 90672241 Description: 2K Plastic Adhesive - Slow 5 Minutes</p>	
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Technical Data Sheet

<p>General</p> <p>Article number: 90672426</p> <p>Description: Seam Adhesive MS Polymer (290 ml)(Black)</p>	
<p>Specification</p> <p>High quality universal sealing and bonding adhesive. For all joints and seams on almost all substrates. Can also be used as general construction adhesive. Bonds many materials like, metal, plastic, glass. Permanent elastic. Paintable with 1K and 2K paints. 1-component MS Polymer. Neutral curing. Colour Black. 290 ml in cartridge.</p> <p>Features and Benefits</p> <ul style="list-style-type: none"> • Permanent elastic • Fast curing. • Sandable • Paintable with 1K and 2K paints. Wet-on-wet applicable. (Test in advanced.) • Resistant to: UV-radiation, weather, water, moist, mould. • Very good adhesion on several substrates. Even damp surfaces. • Non corrosive to metals. • Sandable after complete curing through. <p>Application</p> <ul style="list-style-type: none"> • All joints and seams on almost all substrates. • Bonds many materials. (metal, plastic, glass, etc) • Can also be used as universal bonding-, sealing- and assembling sealant. • Used in: automotive, industry, marine and many more. <p>Specification</p> <ul style="list-style-type: none"> • Colour: Black • Packing: 290 ml • Packing unit: 12 units per box • Store: Cool and dry, between +5°C and +25°C; • Shelf life: 12 months 	
<p>Technical data</p> <p>Qualities of character: Elastic</p> <p>Density: 1540 kg/m3</p> <p>Consistency: Pasty, sprayable</p> <p>Curing through: 2 – 3 mm in 48 hours (23°C and 55% R.H.)</p> <p>Skimming time: Within 15 minutes</p>	


Elongation at break (2):	300%
E-module at 100%, MPa:	0.85
Hardness ²) Shore A:	60
Tensile strength (1), MPa:	2.20
1) Measured to DIN 53504	
2) Measured to DIN 53505	
Resistance	
Temperature resistance:	-40°C till +90°C
Mechanical resistance:	Good
Chemical resistance:	Fair
Consumer chemicals:	Good
Dirt attachment:	Hardly non
Remarks	
Substrate Range	
Very good adhesion on several substrates, even damp surfaces. Product suitable for various substrates, metal, glass, glazed surfaces, enamel, anodized aluminum, painted wood and several plastics. Porous surfaces if necessary to be pre-treated with Primer. Adhesion tests are recommended.	
Universal adhesive for: metal, synthetic, concrete, wood and carpenter industry such as: car, caravan, camper, trailer, marine, machinery, ventilation, steel, façade, glass, window-frame, furniture, interior, stand, unit, sandwich panels etc.	
Substrate Preparation and Processing	
Application temperature +5°C till +40°C. In general this MS Polymer product adheres perfectly without the use of a primer to various substrates. Apply on a dry, clean and free of dust, grease and loose particles surface for a good adhesion.	
Paintability	
Paintable with water based paints. We recommend an adhesion and compatibility test first. When painted over this MS Polymer, it can be done wet on wet. When cured we recommend to sand sealant and junction surfaces. For an optimal result we recommend to paint within a few days after application.	
Related products Colad	
Article number: 90675550 Description: Universal Gun Manual	
Article number: 90627997 Description: Nozzle Standard	
Disclaimer Technical Data Sheet & Material Safety Data Sheet	
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Technical Data Sheet

<p>General</p> <p>Article number: 90672427</p> <p>Description: Seam Adhesive MS Polymer (White) 290 ml</p>	
<p>Specification High quality universal sealing and bonding adhesive. For all joints and seams on almost all substrates. Can also be used as general construction adhesive. Bonds many materials like, metal, plastic, glass. Permanent elastic. Paintable with 1K and 2K paints. 1-component MS Polymer. Neutral curing. Colour White. 290 ml in cartridge.</p> <p>Features and Benefits</p> <ul style="list-style-type: none"> • Permanent elastic • Fast curing. • Sandable • Paintable with 1K and 2K paints. Wet-on-wet applicable. (Test in advanced.) • Resistant to: UV-radiation, weather, water, moist, mould. • Very good adhesion on several substrates. Even damp surfaces. • Non corrosive to metals. • Sandable after complete curing through. <p>Application</p> <ul style="list-style-type: none"> • All joints and seams on almost all substrates. • Bonds many materials. (metal, plastic, glass, etc) • Can also be used as universal bonding-, sealing- and assembling sealant. • Used in: automotive, industry, marine and many more. <p>Specification</p> <ul style="list-style-type: none"> • Colour: White • Packing: 290 ml • Packing unit: 12 units per box • Store: Cool and dry, between +5°C and +25°C; • Shelf life: 12 months 	
<p>Technical data</p> <p>Qualities of character: Elastic</p> <p>Density: 1540 kg/m3</p> <p>Consistency: Pasty, sprayable</p> <p>Curing through: 2 – 3 mm in 48 hours (23°C and 55% R.H.)</p> <p>Skinning time: Within 15 minutes</p> <p>Elongation at break (2): 300%</p>	

E-module at 100%, MPa:	0.85
Hardness ²⁾ Shore A:	60
Tensile strength (1), MPa:	2.20
1) Measured to DIN 53504	
2) Measured to DIN 53505	
Resistance	
Temperature resistance:	- 40°C till +90°C
Mechanical resistance:	Good
Chemical resistance:	Fair
Consumer chemicals:	Good
Dirt attachment:	Hardly non
Remarks	
Substrate Range	
Very good adhesion on several substrates, even damp surfaces. Product suitable for various substrates, metal, glass, glazed surfaces, enamel, anodized aluminum, painted wood and several plastics. Porous surfaces if necessary to be pre-treated with Primer. Adhesion tests are recommended.	
Universal adhesive for: metal, synthetic, concrete, wood and carpenter industry such as: car, caravan, camper, trailer, marine, machinery, ventilation, steel, façade, glass, window-frame, furniture, interior, stand, unit, sandwich panels etc.	
Substrate Preparation and Processing	
Application temperature +5°C till +40°C. In general this MS Polymer product adheres perfectly without the use of a primer to various substrates. Apply on a dry, clean and free of dust, grease and loose particles surface for a good adhesion.	
Paintability	
Paintable with water based paints. We recommend an adhesion and compatibility test first. When painted over this MS Polymer, it can be done wet on wet. When cured we recommend to sand sealant and junction surfaces. For an optimal result we recommend to paint within a few days after application.	
Related products Colad	
Article number: 90675550	
Description: Universal Gun - Manual	
Article number: 90627997	
Description: Nozzle standard	
Disclaimer Technical Data Sheet & Material Safety Data Sheet	
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<p>General</p> <p>Article number: 90672428</p> <p>Description: Seam Adhesive MS Polymer (Grey) 290 ml</p>	
<p>Specification</p> <p>High quality universal sealing and bonding adhesive. For all joints and seams on almost all substrates. Can also be used as general construction adhesive. Bonds many materials like, metal, plastic, glass. Permanent elastic. Paintable with 1K and 2K paints. 1-component MS Polymer. Neutral curing. Colour Grey. 290 ml in cartridge.</p> <p>Features and Benefits</p> <ul style="list-style-type: none"> • Permanent elastic • Fast curing. • Sandable • Paintable with 1K and 2K paints. Wet-on-wet applicable. (Test in advanced.) • Resistant to: UV-radiation, weather, water, moist, mould. • Very good adhesion on several substrates. Even damp surfaces. • Non corrosive to metals. • Sandable after complete curing through. <p>Application</p> <ul style="list-style-type: none"> • All joints and seams on almost all substrates. • Bonds many materials. (metal, plastic, glass, etc) • Can also be used as universal bonding-, sealing- and assembling sealant. • Used in: automotive, industry, marine and many more. <p>Specification</p> <ul style="list-style-type: none"> • Colour: Grey • Packing: 290 ml • Packing unit: 12 units per box • Store: Cool and dry, between +5°C and +25°C; • Shelf life: 12 months 	
<p>Technical data</p> <p>Qualities of character: Elastic</p> <p>Density: 1540 kg/m³</p> <p>Consistency: Pasty, sprayable</p> <p>Curing through: 2 – 3 mm in 48 hours (23°C and 55% R.H.)</p>	

Skinning time: Within 15 minutes Elongation at break (2): 300% E-module at 100%, MPa: 0.85 Hardness2) Shore A: 60 Tensile strength (1), MPa: 2.20 1) Measured to DIN 53504 2) Measured to DIN 53505
Resistance Temperature resistance: -40°C till +90°C Mechanical resistance: Good Chemical resistance: Fair Consumer chemicals: Good Dirt attachment: Hardly non
Remarks Substrate Range Very good adhesion on several substrates, even damp surfaces. Product suitable for various substrates, metal, glass, glazed surfaces, enamel, anodized aluminum, painted wood and several plastics. Porous surfaces if necessary to be pre-treated with Primer. Adhesion tests are recommended. Universal adhesive for: metal, synthetic, concrete, wood and carpenter industry such as: car, caravan, camper, trailer, marine, machinery, ventilation, steel, façade, glass, window-frame, furniture, interior, stand, unit, sandwich panels etc.
Substrate Preparation and Processing Application temperature +5°C till +40°C. In general this MS Polymer product adheres perfectly without the use of a primer to various substrates. Apply on a dry, clean and free of dust, grease and loose particles surface for a good adhesion.
Paintability Paintable with water based paints. We recommend an adhesion and compatibility test first. When painted over this MS Polymer, it can be done wet on wet. When cured we recommend to sand sealant and junction surfaces. For an optimal result we recommend to paint within a few days after application.
Related products Article number: 90675550 Description: Universal Gun - Manual Article number: 90627997 Description: Nozzle Standard
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Technical Data Sheet


<p>General</p> <p>Article number: 90672412</p> <p>Description: Sprayable Seam Sealer MS Polymer (Grey) 310 ml</p>	
<p>Specification</p> <p>Apply where textured coating or sound insulation is needed. Use as protective layer inside and outside on car body welding and construction seams. Matches factory sealing jobs. Paintable with 1K and 2K paints. Permanent elastic. 1-component (1K). MS Polymer based. Colour Grey. 310 ml in cartridge.</p> <p>Features & Benefits</p> <ul style="list-style-type: none"> • Permanent elastic. • Fast curing. Direct (wet-on-wet) sprayable with coating. • Possibility to modulate (brush) • Matches factory sealing jobs. • Can directly be applied, as well as a thin stroke and as a larger stroke. <p>Application</p> <ul style="list-style-type: none"> • Where textured coating or sound insulation is needed. • Use as protective layer inside and outside on car body welding and construction seams. • Restore the sealing and bonding in original state. • Very good adhesion with metals, primers and enamels. <p>Specification:</p> <ul style="list-style-type: none"> - Colour: Grey - Packing: Cartridges of 310 ml - Packing unit: 12 units per box - Store: Store on a cool and dry place, between + 5°C and + 25°C. - Shelf life: In good closed original packing till 12 months after production date. - Technical data <ul style="list-style-type: none"> Qualities of character: Elastic Density: 1540 kg/m3 Consistency: Pasty, sprayable Curing (230C and 50% R.H.): 3.0 mm in 24 hours 5.0 mm in 48 hours Skinning time: Within 15 minutes Elongation at break (1): 250% E-module at 100%, MPa: 0.85 Hardness2) Shore A: 40° 	

<p>- Resistance</p>	<p>Tensile strength (2), MPa: 1.25 1) Measured to DIN 53504 2) Measured to DIN 53505</p> <p>Temperature resistance: - 40°C till + 90°C Mechanical resistance: Good Chemical resistance: Fair Consumer chemicals: Good Dirt attachment: Hardly non</p>
<p>Substrate Range</p> <ul style="list-style-type: none"> • Metal, glass, plastics, ceramics tiles. • Due to the large diversity of surfaces, testing is advisable. 	
<p>Remarks</p> <p>Substrate Preparation and Processing</p> <ul style="list-style-type: none"> • Apply on dry, clean and free of dust, grease and loose particles, for a good adhesion. • Surface temperature: Between + 5°C till + 60°C. • Application temperature: Between + 5°C till + 40°C <p>Paintability</p> <p>Paintable with the most usual autorepair-enamels. It is recommended to test the adhesion and compatibility first.</p>	
<p>Related products Colad</p> <p>Article number: 90672658 Description: Caulking Gun - Pneumatic</p> <p>Nozzles:</p> <p>Article number: 90663802 Description: Nozzle 3 mm (black)</p> <p>Article number: 90663799 Description: Nozzle 1.5 mm (red)</p> <p>Article number: 90663780 Description: Nozzle 2 mm (blue)</p> <p>Article number: 90663772 Description: Nozzle Flat</p>	
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Technical Data Sheet

<p>General</p> <p>Article number: 90673719</p> <p>Description: Windscreen Adhesive MS Polymer (Black) 290 ml</p>	
<p>High quality MS Polymer, 1-component (1K). Permanently elastic adhesive, very high initial adhesion and high adhesive strength. Perfectly suited for bonding windscreens to the car body. Also for bonding of windscreens in vehicle, wagon and cabin construction. Bus, truck, agricultural and construction machine sectors. Colour Black. 290 ml.</p> <p>Features & Benefits</p> <ul style="list-style-type: none"> • Perfect adhesion, permanent elastic. • High initial adhesion. • Adjustable. • 2h drive away time. • Very good sealing properties. • No smell. • Compatible with paints. • Shortly resistant up to +200°C for powder and thermal coating. <p>Application</p> <p>Bonding of windscreens in vehicle, wagon and cabin construction. For non-supported bonds and where a fast, continuous working process is required. Used in the area of metal, apparatus and machine construction plastics technology, car body, wagons, vehicles and container construction.</p> <p>Specification</p> <ul style="list-style-type: none"> • 1-component MS-hybrid-polymer adhesive • Technical data: <ul style="list-style-type: none"> - Colour: Black - Packing: 290 ml in cartridge - Packing unit: 12 units per box - Shelf life: 18 months - Store: Cool Dry (10 - 25°C) - Mechanism of curing: Ambient curing - Application temperature: + 5°C to + 40°C - Tooling time: Maximal 3.5 min. - Handling time: Maximal 15 min. - Paint time: Wet - wet. (processing later than 1 day, reactive the surface with acetone.) - Skinning time: ca. 5 minutes - Curing through at 23°C / 50% H.R.: After 24 h: 3 mm. After 48 h: 4 mm - Modulus elongation at 100%, DIN 53504 S2 * ca. 1.8 N/mm² 	

- Elongation at break, DIN 53504 S2 *: ca. 250 %
- Tensile strength, DIN 53504 S2 *: ca. 2.8 N/mm
- Resistance:
 - Good: water, aliphatic solvents, oils, greases, diluted inorganic acids and alkalis.
 - Not resistant: Concentrated acids and chlorinated hydrocarbons.

(* 23 °C and 50 % relative humidity)

Substrate range

- Metals, powder-coated, varnished, galvanized, anodized, chromed surfaces.
- Various plastics, ceramics, glass, concrete and wood.
- Due to a variety of materials, preliminary tests are recommended.

Remarks

Substrate preparation and processing

- The surface has to be clean, and free of dust, oil and grease.
- The compatibility with materials, coatings etc. must be determined in advance.
- Can be applied using a normal Manual (Colad) Caulking Gun.
- A layer thickness of 1 – 6 mm is recommended. Depending on the surface, material expansion, tension and mechanical stresses.
- Bonding must take place within the processing time.
- Non-cured adhesive can be removed with rubbing alcohol. Cured adhesive can be removed mechanically.

Paintable

Due to the diversity of varnishes and paints we recommend preliminary tests. If applied to painted or plastered substrates, a sufficient drying time of the paint must be kept.

Related products Colad

Article number: 90672658

Description: Caulking Gun - Pneumatic

Article number: 90675550

Description: Universal Gun – Manual

Article number: 90628373

Description: Application Nozzle Windscreen Adhesive

Article number: 90675436

Description: Windscreen Primer

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Technical Data Sheet

<p>General</p> <p>Article number: 90672658</p> <p>Description: Caulking Gun - Pneumatic</p>	
<p>Specification</p> <p>Accurate and even placement of sealers. Multi usable 1-component (1K) gun. With a delivery regulator and spray pressure regulator (max. 6 bar). Compatible with Nozzle Flat and Nozzles 1.5, 2 and 3 mm. Suitable for standard cartridges of 290 and 310 ml and sausages of 400 ml.</p> <p>Universal Spray Gun for single component sealants.</p> <ul style="list-style-type: none"> - Operational pressure: 6 bar - Air consumption: 7.8 cfm - Weight: 2.737 lb - Max. pressure: 10 bar - Max. noise level: 70 dBA - Dimensions: 395 x 220 mm - Packing unit: Per unit in a box. <p>Standard equipment contained in the box</p> <ul style="list-style-type: none"> - Compressed air gun - Nylon piston for sprayable products in bag. - Adapter for bags. - Adapter for applying specific products for ridges and sealing adhesives. - External nozzle for deburred spraying Ø 2 blue. - External nozzle for clean spraying Ø 1.5 red. - Internal nozzle for screwing onto the cartridge. 	
<p>Remarks</p> <ul style="list-style-type: none"> - This revolutionary system allows the application of all kinds of single-component sealants (in aluminum, plastic or carton cartridges as well as in bags), it sprays the product in various finishes, creates ridges of various widths on doors and bonnets, applies sealants for fitting windows. - Suited for several kinds of nozzles to reach the required results. - Comes with a product delivery regulator and a spray pressure regulator (max. 6 bar). - A blocking nozzle can cause a dangerous situation even if the gun is not connected to the compressed air. 	
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Technical Data Sheet

<p>General</p> <p>Article number: 90672666</p> <p>Description: Gun for 2K Plastic Adhesive</p>	
<p>Specification</p> <p>Compact and light weight. Designed for precise application of adhesives. For 2-component (2K) adhesives. Made of metal.</p>	
<p>Related products Colad</p> <p>Article number: 90672980/90672981 Description: Mixing Tips Plastic Repair</p> <p>Article number: 90672258 Description: 2K Plastic Adhesive - Super Fast 30 seconds</p> <p>Article number: 90672259 Description: 2K Plastic Adhesive - Fast 1.5 Minutes</p> <p>Article number: 90672240 Description: 2K Plastic Adhesive – Medium Fast 3.5 Minutes</p> <p>Article number: 90672241 Description: 2K Plastic Adhesive - Slow 5 Minutes</p>	
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Technical Data Sheet

<p>General</p> <p>Article number: 90672440</p> <p>Description: Panel Bonding Adhesive (Black) 2-component epoxy adhesive (195 ml)</p>	
<p>Specification</p> <p>2-component epoxy adhesive for bonding of metal and composite panels and substrates. Bonds metal, SMC, ABS, aluminum, galvanized steel, cold rolled steel and hot rolled steel. Bond metal panels of the same, or different metal composition, together. High energy absorption. With corrosion protection for use on bare metal. Ambient curing. Paintable after curing. 2 mixing tips included.</p> <p>Colour: Black.</p> <p>195 ml in 'normal' cartridge. Can be applied by normal Colad Universal Gun Manual.</p> <p>Features & Benefits</p> <ul style="list-style-type: none"> • Long open time: 60 minutes. • Contains glass pearls for an even layer. • Stable on vertical surfaces, no sagging. • High energy Resistancy. • VOC free. • Can be used on bare metal, contains corrosion protection. • Ambient curing. • Withstands automotive e-coat, powder prime, and paint oven temperatures up to 230°C. • Spot-weldable (uncured). <p>Application</p> <ul style="list-style-type: none"> • Bond metal panels of the same or different metal composition together (F.I.: steel and aluminum). • Panel to frame assembly, aluminum panel on steel body work, aluminum fender, aluminum door panel. Alternative to refitted or welded bonded joints. • Fix/clamp 4 hours (at 23°C), until maximal handling strength is reached. <p>Remarks</p> <ul style="list-style-type: none"> • Due to a variety of materials, preliminary tests are recommended. • Always follow OEM specifications and instructions when repairing. • Not for structural parts of the car. 	

- Material Safety Data Sheet (MSDS) available on www.colad.co

Application

Below an example of an suggested application of a panel. In practice the application can vary due to specific circumstances or a different type of reparation. Always follow OEM specifications and instructions when repairing.

Old Panel and target bonding area:

- Remove the old panel mechanically (No open flame. Maximal 200°C)
- Remove old adhesive residues, screws and welding points.
- Remove rust, paint and primer from the target bonding area.
- Grind all target bonding area to bare metal for a good fit.
- Sand surface with abrasive disc 36 or 50 grit.
- Straighten all metal and align parts and dry fit the panel.
- Clean the target bonding area with Acetone. Do not touch with bare hands.

New Panel:

- When the part is coated with Zinc or E-coat. Remove the complete Zinc or E-coat up to the bare metal at the target bonding area.
- Sand with sanding disc grit 36 or 50. Use grid 80 when there is no Zinc, E-coat or paint on the new panel.
- Clean the target bonding area with Acetone. Do not touch with bare hands.

Cartridge:

- Attach the mixer tip.
- Dispense 3cm adhesive for even mixture of two components.

Apply adhesive:

- **Bead 1: All areas to be bonded:** Apply an bead of Adhesive.
- Tool the adhesive evenly, cover all surfaces of bare metal.

- **Bead 2: New part: apply adhesive** 8 mm approximately
Apply 5mm from the edge, to minimize excessive squeeze out.
Do not add a second bead at points that will be spot welded.

Aligning:

- Align the new part with even pressure.
- After positioned, do not pull it from the vehicle.
- When open time is passed and the part is not positioned. Remove the adhesive. Apply new adhesive.

Clamping:

- Starting in the corners, panel end points and any position where tension is present in the fit.
- Clamp firmly in place every 200 mm.
- Use screws or rivets where clamping is not possible.
- Clamp for 4 hours (at 23°C), until maximal handling strength is reached.
Longer clamp times may be necessary at lower temperatures. Do not move the object.

Next step:

- Tool the adhesive squeeze-out into the seam as with normal seam sealer.
- Proceed with welding where required and in accordance with OEM recommendations.
- The epoxy can be spot welded through when wet on a single (primer) layer.

Vehicle may be returned to service after 24 Hours.

Paintability

Paintable with water-based and 2K paints after 24 hours.

Due to the diversity of varnishes and paints we recommend preliminary tests.

Specification:

- Colour: Black
- Packing: 195 ml

- Packing unit: 12 x per box
- Store: Cool and dry. Between 15°C & 32°C.
- Shelf life: 20 months (also after opening).
- Open/dispense: After dispense the used mixer should be left attached to the cartridge to ensure sealing from humidity.

- Technical data:
 - Open time*: 60 minutes.
Also called "wet time" or "pot life". The time the adhesive is wet enough to bond to a second substrate being mated in the bed of adhesive.

 - Working time*: 90 minutes.
During working time the already joined part can still be re-positioned. Do not take the bonded assembly apart.

 - Sanding time*: After curing: 24 hours
 - Paint time*: After curing: 24 hours
 - Handling time*: Within 4h at 23°C. Time when the adhesive is hard enough to hold on its own. Clamp/fix the parts for 4 hours, until maximal handling strength is reached.

 - Full Cure*: 24 hours
 - temperature when applying: 18°C - 29°C
 - Cure: Ambient.
 - Heat accelerated cure: 1x infrared lamp (max. 150°C) 70 cm distance
 - Optimum Bondline Thickness: 0.25 mm
 - Paint Bake: Up to 230°C
 - Gap Filling: Very Good
 - Sag resistance: Good. For vertical applications.
 - Tensile strength MPa @ 23°C: 30 (ASTM D-638)
 - Young's Modulus MPa @ 23°C: 4550 (ASTM D-638)
 - Elongation %: 3 (ASTM D-638)
 - Shore Hardness D: 80 (ASTM D-2240)
 - CLTE, 10-6/°C @ -30°C to 0°C: 67 (ISO MAT-2208)
 - CLTE, 10-6/°C @ 100°C to 130°C: 155 (ISO MAT-2208)

Values from laboratory tests. Values should not be explained as an 100% guarantee analysis of any specific lot.
(* = at 23°C)

Substrate range

Substrate	Surface preparation Ambient Cure	Surface preparation Heat Cure
Metal	Abrasion (36 – 80 rgd) & Degreasing	Abrasion (36 – 80 rgd) & Degreasing
Composite (SMC, RTM, CFRP)	Abrasion	Solvent wipe

Substrate range

Substrate	Lap Shear Value (MPa)
Cold Rolled Steel (1.5 mm)	27.8
Cold Rolled Steel (0.8 mm)	23.7
Hot Dipped Galvanized Steel (0.7 mm)	12.6
Alloyed Galvanized Steel (0.7 mm)	18.5
6111 Aluminium Alloy (0.9 mm)	11.3
5052 Aluminium Alloy (0.6 mm)	12.4
ABS	3.0
SMC	8.8

Test conditions: solvent wipe, abrasion (80rgd), bond line 0.25 mm, temperature 23°C.

Disclaimer

Technical Data Sheet & Material Safety Data Sheet

It is the responsibility of the user to read understands and apply the information of the TDS. The information about work and environmental safety is available on the material safety data sheet via www.colad.co.

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Notice

Products are for professional use. The adhesive could be harmful if improperly handled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn.

The repairs should always be done in accordance with the OEM rules and specifications.

All information is for the user's consideration, investigation and verification. The specific use applications and conditions of use are beyond the control of EMM International B.V. It is the responsibility of the user to determine the suitability of any of the products mentioned for the user's specific application.

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