Our Easy-Mix RK-7100 MMA Adhesive is a very high strength acrylic adhesive used for creating permanent bonds. This glue is quite thick which allows for accurate application and use on vertical surfaces. It also has an accelerated cure time and pot life.

View This Product

RK-7100 Acrylic Adhesive utilises the Weicon Easy-Mix dosing system which eliminates the need for complex mixing or measuring. Manufactured in Germany, this professional-quality adhesive is widely used for automotive, engineering, construction, marine, electrical and general repair work.

Easy to Use thanks to the Easy-Mix System.

The Weicon Easy-Mix Dosing System eradicates complex mixing and measuring and makes getting the right amount of glue, where you need it, simple.

Simply slot the container of RK-7100 into a compatible dispensing pistol (we suggest the Weicon D 50) and attach the Quadro Mixing Nozzle (one is included with each container). That's it. When you pull the trigger the two parts that make up RK-7100 Acrylic Adhesive will be mixed as they travel along the nozzle so that, by the time they reach the surface, you have a single homogenous adhesive.

Spare mixing nozzles are also available, and the gun works with a variety of our adhesives, so you can mix and match depending on your particular requirements. For more information on the Easy-Mix System and to see how easy it is, check out the video included below.

Applications

- Vehicle construction and repairs.
- Tool and mould making.
- Furniture making and assembly.
- Building and construction.
- In the marine and boating industry.
- Engineering and plant maintenance.
- In the DIY and renovation sector.

General Material Compatibility

- Metals (such as coated metal, steel, aluminium, copper, zinc alloys and ferrites)
- Plastics* (such as ABS, polystyrene, hard PVC, polycarbonate, Polyphenylene oxide and polyester moulding compounds)
- Fibre Composite Materials (including GRP, CRP and fibreglass)
- Wood and cellulose materials (e.g. MDF)
- Glass, Ceramics and Stone

*Please note Polyamide, PTFE and polyolefin may only be bonded after special treatment of the surface (e.g. low-pressure plasma, corona, flame impingement).

Date Created: 25/3/2021
Date Modified: 26/3/2021
Document # SSD-TDS-SWM000263

Properties

Basis	Methyl Methacrylate (MMA)
Colour After Curing	Cream, Milky white
Density of the Mixture	0.98 – 1.02 g/cm³
Mixing Ratio	1:1
Viscosity of the Mixture	40,000 – 60,000 mPa·s
Application Procedure	Easy-Mix
Composition	Viscous
Pot Life (at 20°C)	5 Minutes
Handing Strength (35% of Final)	25 Minutes
Capable of Bearing Mechanical Loads (50% of Final)	60 Minutes
Processing Temperature	+10°C to +40°C
Curing Temperature	+18°C
Fully Cured (100%)	12 Hours
Adhesive Gap Bridging	0.1mm – 5mm
Temperature Resistance (After Curing)	-55°C to +125°C

Shear Strength (According to DIN EN 1465)	
Aluminium	20 N/mm²
Sand Blasted Steel	23 N/mm²
Stainless Steel	22 N/mm²
Polycarbonate	12 N/mm²
PMMA	9 N/mm²
ABS	7 N/mm²
Hard PVC	12 N/mm²
Fibreglass Reinforced Polyester	21 N/mm²
Fibreglass Reinforced Epoxy	22 N/mm²
Polyamide 6.6	1 N/mm²

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RK-7100 Acrylic Adhesive Chemical Resistance After Curing

Acetone	+	Isopropyl Acetate	+
Acidic Vapours	+	Isopropyl Alcohol	+
Alcohol	+	Isopropyl Ether	+
Aliphatic Hydrocarbons	+	Kerosene	+
Alkaline Vapours	+	Ketone	+
Ammonia, Ammonium Chloride	+	Lubricating Oils & Greases	+
Aromatic Hydrocarbons	O	Mercury	+
Benzoyl	O	Methanol (Methyl Alcohol)	+
Benzoyl Acid	+	Methyl Benzoyl	+
Bile Medium (Bilge Water)	+	Methyl Chloride	O
Brake Fluid	+	Methyl Ethyl Ketone	+
Bromide Solution	O	Methyl Isobutyl Ketone	+
Butyl Alcohol (Isobutanol)	+	Methylene Dichloride	+
Calcium Chloride (Sea Salt)	+	Mineral Oil	+
Calcium Sulphate	+	Mineral Turpentine	+
Calcium Sulphite	+	Nitric Acid (5%)	+
Chlorinated Hydrocarbons	+	Nitric Acid (Fuming)	-
Chlorinated Salt Water	+	Oxygen	-
Chlorinated Solvents	-	Ozone	-
Chlorinated Water	+	Paraffin oil (Kerosene)	+
Chlorine Alcohol	+	Perchlomethylmercaptan	+
Chlorine Bleach	-	Persulfuric Acid (5%)	+
Chlorine Gas (Liquid & Dry)	-	Petrol	+
Chlorine Sulphuric Acid	-	Phenol (Carbolic Acid)	+
Chlorine (Liquid & Dry)	-	Phenol Resin	+
Chloroform	+	Phosphoric Acid (5%)	+
Chromatic Acid (5%)	+	Phthalic Acid	+
Cooling Lubricants	+	Polyphosphoric Acid (5%)	+
Corrosive Ammonium, Ammonium Hydroxide	O	Potassium Carbonate (Potash)	+
		Propyl Alchol	+
Cylinder Oil	+	Selenium Chloride	+
Dichloroethylene Ether	+	Silicon Oils	+
Epichlorohydrin	+	Sulphur Dioxide (Wet & Dry)	+
Freon	O	Sulphur Trioxide Gas	-
Fuel (Jet or Turbine)	+	Sulphuric Acid	O
Glycocol, Glycine	+	Sulphuric Acid (Fuming)	-
Heating Oil (Diesel)	+	Tannic Acid	O
Heptane	+	Toulene	O
Hydrochloric Acid	O	Toulene Sulphuric Acid	O
Hydrocyanic Acid (Prussic Acid 5%)	+	Trichloroethylene	+
Hydrogen Bromide (5%)	+	Turpentine, Turpentine Oil	+
Hydrogen Chloride	+	Waste Water	+
Hydrogen Fluoride (Hydrofluoric Acid)	-	Water	+
Hydrogen Peroxide	O	Water (Boiling)	O
Hydrogen Sulphide (Wet & Dry)	+	Water (Distilled)	+
Isobutyl Alcohol (Isobutene)	+	Xylene (Dimethylbenzoyl)	O

+ = Resistant O = Resistant for a Limited Time - = Not Resistant

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Preparation of the Surface
To ensure perfect bonding, the surfaces to be joined must be clean and dry (to clean and degrease use Weicon Surface Cleaner). The highest strength values can be achieved through additional pre-treatment of the surfaces, such as roughening using blasting or abrasive agents. Several plastics, in particular polyamide, PTFE, polyolefin etc. can only be bonded after special surface treatment, for example using fluoridation, low-pressure plasma, corona, flame impingement etc.

Processing
All Weicon Easy-Mix Adhesives can be processed directly from the double cartridge with the assistance of a compatible dispensing gun (such as the Weicon D 50) and the included mixing nozzle.

Reject the first 5cm of the dosed bear. Apply the adhesive to only one side of the surfaces being bonded. The pot life given is for a material quantity of 10ml at room temperature. If larger quantities are used, pot life will be shortened.

Storage
Easy-Mix RK-7100 MMA Adhesive has a minimum shelf-life of 12 months if stored, unopened, in normal climate conditions. This can be extended if kept in cold storage.

Available Sizes
Easy-Mix RK-7100 is available from Swift Supplies in 50ml Double Cartridge Packs.

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