

M 8215 Plastic steel

Product description:

IA M 8215 is two component product, fast curing in cold, metal filled epoxy resin. Plastic steel M 8215 has got an excellent adhesive and bonding strength and is used for sealing, joining, bonding, surface building etc. and also for various application in industry, workshops, automotive construction marine and also for household use.

Part A is an epoxy resin liquid which contains steel leafing pigments and has a tixotropic additive to help in mixing and give it just the right amalgamation.

Part B is made from selected liquid and ammine polymers which allow a catalytic mixing process with special properties.

Neither Part A or B do not contain charged substances but just a tixotropic agent and a small percentage of titanium dioxide.

Typical using:

IA M 8215 is suitable for bonding of a wide range of different surfaces including steel, aluminum, PVC, polycarbonate and zinc-coated iron. Metal Epoxy M 8215 is specifically used to bond metal to metal, wood to metal, plast to metal, glass to glass and to seal polyester fibre-glass.

IA M 8215 offer an excellent cohesion, solidity and elasticity. It is specially suited for using in engineering, can industry and repair business because of its high chemical durability. IA M 8215 is advised for steel castings, conduits, pump casing, damaged flanges, keyseats of cast-iron components etc.

Advantages:

- ✚ **Very good temperature resistance up to 180°C**
- ✚ **Easy to use**
- ✚ **High chemical resistance**
- ✚ **Viscous**
- ✚ **Fast curing**

Application methods:

- Clean and degrease bonded surfaces /S1950/, remove dirt, dust and another impurities.
- Mix the same quantity (weighted and voluminous) of both components and thoroughly mix.
- Apply to 1 surface and put both surfaces together under a small pressure.
- Leave it to cure at room temperature.

Typical adhesive characteristics:

Gel time at 20°C:	3 – 4 minutes
Setting time at 20°C:	5 – 6 minutes
Tack free time at 20°C:	10 – 15 minutes
Complete hardening time:	30 minutes



Properties after bonding:

Hardness Shore D:	75 - 80
Linear shrinkage:	No shrinkage
Physical form	: viscous fluid
Temperature resistance:	product resists 140°-145°C continuously and can resist peaks of 170°-180°C
Tensile strength: (ASTM D 638)	470 – 520 kg/cm ²
Bending resistance: (ASTM D 790)	550 – 650 kg/cm ²
Bonding strength to iron: (ASTM C 482)	32 – 34 kg/cm ²
Compressive strength: (ASTM D 695)	550 – 650 kg/cm ²
Water absorption: (after 7 days curing and immersed in water at 24°C for 24 hours):	0.1%
Chemical resistance:	Good chemical resistance even to concentrated acids and alkalis, oils and petrol.

Part A

Part B

Specific gravity at 20°C:	1070 - 1085 gr/lt	1070 – 1085 gr/lt
Viscosity Brookfield at 20°C:	13000 – 15000 cps	40000 – 45000 cps
Mixture proportion	: 1:1	

Packaging

IA M 8215 is supplied in 20 ml syringe cartouches

Storage

If the product IA M 8215 is dry placed in closed vessels stocking at the temperature between 5 and 25°C, storage life will be 12 months.

Health and safety

This Technical data sheets doesn't contain MSDS. Read IA M 8215 MSDS before using.



HF MARKET s.r.o.
PLEŠNICE 25
330 33 Město Touškov
Czech Republic
Tel.: + 420 377 279 252-3
Fax.: + 420 377 279 260
E-mail: hfmarket@hfmarket.cz
www.hfmarket.cz



ISO 9001:2001
ISO 14 000