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技術資料 Technical Data Sheet

QS-1 Epoxy Resin Bases Structural Adhesive

1.Description :

Version : F

QS-1 is a high viscosity, room temperature fast setting adhesive system. Whose main component is epoxy and hardener. It offers 5 minutes gel time with a pot life of approximately 3 minutes. It is suitable for bonding metals, glass, tiles ceramics, concrete, stone, wool and hard plastics.

2.Features :

- 2.1 Fast curing at room temperature, initial curing time is about 10 minutes.
- 2.2 Mixing part A and part B with equal weight, good workability.
- 2.3 Good adhesives and durability.
- 2.4 This product pass ROHS regulation.

3.Property :

Typical properties	Resin	Hardener
Appearance	Semi-trans paste	Amber paste
Main compound	Epoxy	Modified polyamine
Viscosity (cps / 25°C)	145,000~275,000	100,000~180,000
Specific gravity at 25°C	1.0~1.15	0.95~1.05
Mixing ratio by weight	1	1
Gel time at 25°C	3~6 minutes	
Initial hardening time 25 °C	10 minutes	
Cured time at 25°C	1 day	
Shelf life at 25°C	18 months	

4.Tensile Lap Shear Strength (Kg / cm²) :

curing time(25°C) adhesive	1 hr	2 hrs	4 hrs	1 day	3 days	7 days
Lap Shear Strength Steel-steel	35	65	90	120	160	160

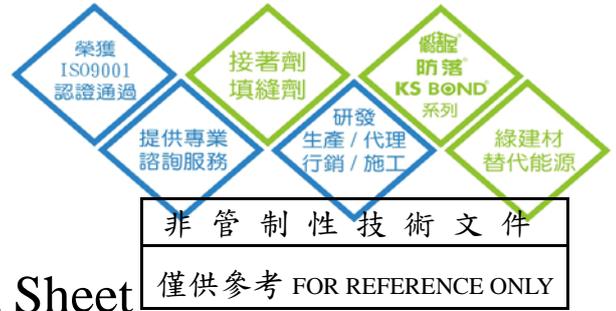
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Test method: ASTM D 1002

5.Application :

- 5.1 Surface preparation : In order to achieve optimum adhesion, thoroughly clean and degrease surface. Scuffing or sanding the surface before cleaning helps insure a good bond.
- 5.2 Mixing part A and part B with equal weight.
- 5.3 Stir it with a spatula until two parts evenly mixed.
- 5.4 After mixed, the glue should be used in 3 minutes.(as soon as possible)
- 5.5 Initial bonding strength could be obtained after 1 hrs. (at 25°C)

6.Health Precautions :

QS-1 does not cause skin irritation to individuals with normal skin sensitivity. Individuals with extra-sensitive skin should maintain caution and wash hands thoroughly after mixing the compound of wear thin plastic gloves.

7.Caution :

- 7.1 Eye irritant. Incase of eye contact, flush eyes with water for 15 minutes. Obtain medical attention.
- 7.2 May be harmful if swallowed. Obtain medical attention.
- 7.3 Keep out of reach of children.

※This data sheet was product using most accurate researched information, users are responsible for their own safety.