GLUDITEC
Glue & Dispensing Technology

Technical Data Sheet

PUT5106

Two-part Polyurethane Bonding & Sealing Adhesive

PUT5106 is a solvent-free, two-component polyurethane adhesive with high bonding strength. The main agent is a hydroxyl-containing prepolymer, and the curing agent is an isocyanate-containing prepolymer. The weight ratio of main agent to curing agent is 8:1 during mixing. It is cured by a chemical reaction to form a hard and elastic substance, and the volume does not change before and after curing.

APPLICATION

PUT5106 can be used for structural bonding of refrigerated vehicles, shelters and other products, and it can also be used for direct bonding of facades. It has good adhesion to the surface of metal, calcium silicate board, floor cloth (such as PVC, rubber), wood, plastic and hard foaming materials.

TYPICAL UNCURED PROPERTIES

Properties	PUT5106-A	PUT5106-B
Appearance	White paste	Dark brown
Form	Non-flowing	Liquid
Viscosity	--	210 ± 100
Density, g/cm^3	1.70 ± 0.05	1.22 ± 0.05
Pot life, mins	30~40	30~50

TYPICAL CURED PROPERTIES

Properties	PUT5106
Mix Ratio (A:B) by Weight	8:1
Pot Life, 23°C, mins	30 ~ 40 (adjustable)
Initial Strength (hour)	3~4
Through Cured Time 25°C, days	5~7
Tensile Lap-Shear Strength (MPa)	> 7.0 (Al/Al)
Temperature Range of Application (°C)	-40~110
Maximum Temperature for 1h Exposure (°C)	130

DIRECTION OF USE

Humidity would have a negative impact on curing. Protect both resin and hardener against humidity. Keep the packaging tightly closed and store in a dry place. The bonding surfaces should be clean, dry, free of dust and grease.

The resin PUT5106 should be well stirred before use. Mix the two components in proper ratio. The product can be operated by spatula, roller or machine. PUT5106 can be curing at temperature as low as 5°C. Elevated temperature or catalyst will shorten the curing time. Best adhesion results are obtained after several days. During curing, certain pressure should be applied to the surfaces to ensure good contact of the product with the surfaces. Our technical department is available for any further questions

Uncured adhesive can be removed by exclusively cleaner, while the cured adhesive can only be removed by mechanical methods.

STORAGE

The goods are recommended to be kept in the temperature ranging from 10°C to 30°C. Direct sunlight, heat, frost and moisture should be avoided. In original sealed buckets, it has a shelf life of 12 months.

PACKAGING

Bucket 5kg/25kg (PUT5106A)

1kg/5kg/25kg (PUT5106B) (or as requested)

The data contained in this bulletin is provided only as a guide for evaluation/consideration. These material characteristics are typical properties that are based on a limited number of samples tested in the laboratory. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any product or method. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide.