

## Description

**J4105** is available in three handling times: 5, 15 and 45 minutes.

<b>Technology</b>	Modified methacrylate
<b>Aspect</b>	Liquid paste
<b>Component</b>	Two component-1/10 volume ratio.
<b>Polymerization</b>	At room temperature
<b>Application</b>	Adhesive

## Characteristics

**J4105** adhesive bonds a wide variety of prepared or unprepared metals and engineered plastics.

**J4105** is specifically formulated to provide the highest impact, peel strengths and vibration resistance available in a room temperature curing adhesive.

- Room temperature polymerization
- **J4105** requires for metal bonding little or no substrate preparation.
- Excellent cold temperature strength and stable at temperatures from -40°C to 150.
- **J4105** resists dilute acids, alkalis, solvents, greases, oils, moisture, and weathering.
- **J4105** provides excellent UV exposure resistance.

## Uncure properties

### Aspect

Resin **J4105** = brown yellow

Hardener **J4105** = white

Specific gravity (g/cm<sup>3</sup> 20°C) Resin **J4105** = 1.05 -1.10

Hardener **J4105** = 1.05 -1.10

Viscosity (mPa.s@25°C) Resin **J4105** = 15 000

Rheometer Hardener **J4105** =24 000

*Thixotropic\**

*\* remains non-sag when applied on vertical surfaces.*

## Physical properties

Hardness (Shore D): 70-80

% elongation at break \*: 25-30

Tensile strength at break (MPa) \*: 14 -15

\*: with ISO 527-1A norm.

## Curing properties

Open time (min) 2, 10 or 20.

Handling time @24°C (min) 5, 15 or 45.

Full cure (hours) 24.

## Mechanical properties

- Lap shear strength\* (MPa) with NF1465 on:

Aluminium 6060\*\* 25.0

Steel\*\* 24.0

Pmma Substrate failure

ABS Substrate failure

FRP 16.0 Substrate failure

\* ISO 113-43 Impact resistance: 28-30 N/mm

On galvanised steel (joint of 0,5 mm) :

\*Data is typical and not to be used for specification purposes.

\*\* Cohesive failure.

**Surface preparation**

Use ELITE **T700** to remove grease, loose contamination or poorly adhering oxides from metal surfaces. Most plastics require a simple cleaning before bonding. Some may require sanding for best performance.

**Weathering & aging resistance**

Lap shear strength (MPa) with NF1465 norm after 3 cycles of weathering: (72 hours) of NFEN ISO 9142 weathering norm:

Aluminium 6060**	23,5
Steel**	23,0
Pmma	Substrate failure
ABS	Substrate failure
FRP	17.2 Substrate failure

After 2H @ 75°C

Aluminium 6060**	24.2
Steel**	25.0
PMMA	Substrate failure
ABS	Substrate failure
FRP	17.6 Substrate failure

\*\* Cohesive failure

**Storage & packaging**

**J4105** is available in 50mL, 490mL cartridges and 20L or 200L drums

For maximum shelf life, keep in a cool and dry area; avoid direct contact with heat and sunlight.

Shelf life is 6 months in unopened original packaging at delivery date.

**Handling**

Work in a well ventilated area

Do not swallow!

Flammable. May causes sensitization by skin contact. Irritating to eyes, and skin.

Before using this or any ELITE(HK)CO.,LTD product, refer to the Material Safety Data Sheet (MSDS) and label for safe use and handling instructions.

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