

ALUMINUM ADHESIVE



FX-QE590 is solvent-free, epoxy resin based, high performance adhesive to bond angle brackets in aluminum windows, doors and facade construction.

- **PRODUCE NAME :** Injection Cartridge (Pure epoxy resin)
- **PRODUCT CODE :** FX-QE590
- **SIZE :** 590ML
- **RATIO :** 1:1
- **COLOR :** PART A-White
PART B-Black
MIXED- Gray

APPLICATION

- ➔ Structural bonding of aluminum angle brackets
- ➔ Powder-coated window frame
- ➔ Sash window profiles in aluminum window
- ➔ Door and facade construction.
- ➔ Bonding natural stone and cast
- ➔ Bonding materials such as aluminum, HPL, glass-fiber reinforced plastic and other materials in various industrial sectors stone.

ADVANTAGES

- High adhesion
- High stability
- Styrene-free
- Low odor
- Non contraction after harden
- No transportation restrictions

TECHNICAL DATA SHEET

PURE EPOXY FX-QE590



TEST REPORT

PROPERTY APPRAISAL



Test Item	Test Method	Test Result
Tensile Strength (kgf/cm ²)	ASTM D638-14 (Type I Specimen, 5mm/min)	253
Flexural Strength (kgf/cm ²)	ASTM D790-10	477
Flexural Modulus (kgf/cm ²)	Procedure A	35187
Compressive Strength (kgf/cm ²)	ASTM D695-10	1204
Pull-Off Strength (kgf/cm ²) (Metal)	Refer to ASTM D4541-09 Method E · Type V	175.7
Adhesion Strength (kgf/cm ²) (Metal-to-Metal)	Refer to ASTM D1002-10 (V=1.3 mm/min)	148
Glass transition temperature (T _g) °C	DSC	68.68
Shear Strength (N/mm ²) (Aluminum to Aluminum)	Refer to ASTM D1002-10	19.3
Shear Strength (N/mm ²) (Aluminum to Aluminum)	Refer to ASTM D1002-10	
a.Short-term temperature (after 230 °C /1h)		11.2
b.Temperature condition (after 120°C /1h)		19.4

*** For information only - not for specification purposes. ***

TECHNICAL DATA

DENSITY

➤ 1.379 kg/l (part A+B mixed)

VISCOSITY(25 °C)

➤ 200 ~ 300 Pa.s

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GEL AND LOADING TIMES

(A) 30g + (B) 30g

Application Temperature (°C)	Gel Time (min.)	Loading Time (hr.)
45	4	8
40	6	10
30	15	14
20	20	18
10	30	24
5	40	28

APPLICATION CONDITIONS / LIMITATIONS

SUBSTRATE & AMBIENT TEMPERATURE

➤ +10°C min. / +45°C max.

MATERIAL TEMPERATURE

➤ Must be at a temperature of between +10°C and +40°C for application.

DEW POINT

➤ Beware of condensation!

Substrate temperature during application must be at least 10°C above dew point.

STORAGE CONDITION & SHELF-LIFE

➤ 24 months from date of production if stored properly in original unopened, sealed and undamaged packaging in cool and dry conditions at temperatures between +5°C and +25°C.

➤ Protect from direct sunlight.

All FX-QE590 cartridges have the manufacture date printed on the label.

TECHNICAL DATA SHEET

PURE EPOXY FX-QE590



ORDER INFORMATION

- SIZE : 590ml
- PART# : FX-QE590
- CASE QTY : 6 PCS/ CARTON
- PALLET QTY : 120 CTN/ PALLET
- DISPENSING TOOL : FX-GUN600/WT-296CT9

APPLICATION INSTRUCTIONS

- MIXING : Part A : Part B = 1 : 1 by volume

HEALTH AND SAFETY INFORMATION

- For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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