

Ambient cure high viscous adhesive system

Description

Lapox Crafto Supreme is two component modified, viscous epoxy adhesive system. When both components are mixed in recommended ratios and cured appropriately at room temperature, an excellent bond strength can be achieved with most of the substrates including glass, metals, plastics, wood, textile and natural stones. Faster productivity can be achieved, if curing is performed at higher temperature between 40°C and 60°C. Curing at higher temperature is recommended to achieve optimum bond strength.

Applications

Artificial jewellery and jewel stone fixing
Bangles
Ceramic
Handicraft industries
Wood and concrete

Advantages

Electrically insulating
High bond strength and mechanical strength even in dynamic conditions
Thermally stable and suitable to perform in extreme conditions
Water and chemical resistant

Typical specifications

Test	Unit	Reference	Value	
			Resin	Hardener
Description	-	Visual	Clear, viscous liquid	Clear, reddish-brown, viscous liquid
Viscosity at 25°C ¹	m Pas	ASTM D2196	20,000 - 28,000	30,000 - 40,000
Colour	GS	ASTM D1544	-	Max 10
Colour	APHA	ASTM D1209	Max 80	-
Density	g/cc	ASTM D792	1.05 - 1.15	0.90 - 0.96

¹Viscosity by Brookfield viscometer

Mix specifications

Test	Unit	Reference	Value
Mixing ratio (resin : hardener)	w/w	-	100 : 80
Mix viscosity at 25°C	m Pas	ASTM D2196	25,000 - 30,000
Pot life ¹	Minutes	ASTM D2471	30 - 45
Peak exotherm temperature ²	°C	ASTM D2471	Max 70
Surface dry*	Minutes	ASTM D5895	70 - 90
Touch dry*	Minutes	ASTM D5895	220 - 240
Hard dry*	Minutes	ASTM D5895	455 - 475

¹Pot life of 100 g mix mass at 25 ± 1°C in plastic disposable cup by 'Gardco' gel timer

²Total 100 g mix mass in plastic disposable cup at 25°C

*Drying time of 200 micron film on glass plate at 25°C

After cure specifications

Test	Unit	Reference	Value
Lap shear strength at 25°C ¹	kg/cm ²	ASTM D1002	Min 80

¹Lap shear strength on prepared aluminum strips after 24 hours curing

Processing

Surface preparation: The adherents must be thoroughly degreased with a good degreasing solvent (e.g. toluene, acetone trichloroethylene) and abraded with coarse emery paper or chemically etched. Inadequately pre-treated substrates may not bond satisfactorily.

Application: The mixed mass is applied by brush or spatula on the surface to be adhered. The mix must be used within its pot life.

Curing: Curing normally takes place at room temperature within about 24 hours depending on the ambient temperature but may be accelerated by the application of heat.

Packaging

Lapox Crafto Supreme is available in 1.8 kg bottles and 9 kg HDPE jerry cans. Other packing may be considered on request.

Storage and handling

Lapox Crafto Supreme should be stored in a cool and dry place, preferably in a sealed container and should not be exposed to direct sunlight. This product has a shelf life of one year, if stored in its original container between 2°C and 40°C away from humidity and excessive heat.

Safety

Wear personal protective equipment (PPE). Avoid contact with the eyes and skin. In case of direct contact and irritation, it should be washed off immediately with soap and warm water. Avoid breathing vapours, mist or gas. Please refer to the Safety Data Sheet (SDS) of Lapox Crafto Supreme for detailed safety instructions.

Spills and disposal

In case of spills, sweep up and shovel the spilled material. Keep spilled material in suitable, closed containers for disposal. Soak up with an absorbent such as clay, sand or other suitable material. Flush area with water to remove trace residue. Do not allow the product to reach the sewage system. Waste must be disposed of in accordance with federal, state or local regulations, as applicable.

Contact

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Note

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