

725-S99-17 Polyurethane Leading-edge Protection Coating

Produce Description

This is a two component chemically curing aliphatic polyurethane coating.

It is an abrasion resistant product with high solid content, superior rain erosion resistance, weather resistance and elasticity.

Intended Uses

To be used as leading-edge protection coating for wind turbine rotor blades. Developed for use on glass fiber reinforced epoxy or polyester, and other coatings for wind turbine rotor blades.

Product Information

Volume Solids	≥70%	
Gloss at 60 °	≥85	
Film Thickness	Consultation	
Mix ratio	Part A : Part B =1:2~0.95:2 (Volume) 0.59:1~0.58:1 (mass)	
Thinner	Not recommended. Use 725-NX-701 thinner only in exceptional circumstances (mass 5%)	
Cleaner	725-NX-701	
Induction Period	Not necessary	
Flash Point	Part A	Not available
	Part B	Higher than 100℃
	Mixed paint	Not available

Method of Application

Knife/Brush/Roller(Need to coat several times to get film thickness.)

Drying Information

	5℃	15℃	25℃	35℃
Touch Dry	5h	1h	46min	35min
Handling Dry	24h	12h	8h	6h
Cure until usable	12d	9d	7d	5d
Pot Life	30min	17min	15min	12min

Overcoating Data

Overcoated by	Substrate Temperature							
	5℃		15℃		25℃		35℃	
	Min	Max	Min	Max	Min	Max	Min	Max
725-S99-17	24h	20d	12h	14d	5h	10d	4h	7d

Pack Size

Part A	0.58kg/0.45L in 0.5L container
Part B	1kg/0.98L in 1L container

Storage

Store in well ventilated and dry conditions when temperature is $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$ and RH is less than 90%. Keep away from hot and fire. Shelf Life: 12 months minimum at 25°C Subject to re-inspection thereafter.

Systems and Compatibility

Consult your Representative for the systems best suited for the surfaces to be protected.

Surface Preparation

Clean dust, grease, water droplets and other pollutants. Using pneumatic grinding tools or manual with 120 sandpaper to clean up blade surface thoroughly. Grinding is required before any recoating.

Curing condition

The suitable temperature for applying 725-S99-17 is $5\sim 35^{\circ}\text{C}$.

According to the ratio of mass ratio A: B = 0.59:1 \sim 0.58:1, pour the A component into the B component, stir evenly and immediately apply.

Limitations

The dry time and overcoating interval may change according to the environment factors.

Forbid to trample or pollute the surface of 725-S99-17 before the film is hard dry.

Duty statement

The data in the sheet base on the information from the laboratory and practice. The application may exceed the control, so we only ensure our product quality. We own the right of the data sheet modification without informing.

The version takes the place of the previous version

The Technical Data Sheet (TDS) is recommended to be used in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product.