

## APPLICATION PROCEDURE

The mixed **EPO BOND CF** is applied on the surface using a trowel or brush as 0.7 – 1.2 Kg/m<sup>2</sup> depending on the roughness of the surface.

**EPO CARBOSHEET** is laid on the resin with the fibers on the required direction. Mildly pressing the plastic working roll, it is moved in the direction of fibers on the **EPO CARBOSHEET** thereby making **EPO BOND CF** go out among the fibers. While doing this, do not press very much and provide placement of **EPO CARBOSHEET** in a stretched manner, without creating pots.

Application of multiple layers of **EPO CARBOSHEET** (maximum 3 layers). **EPO CARBOSHEET** is applied on the surface with an approximate consumption of 0.5 kg/m<sup>2</sup>. This should be done within about 60 minutes (at 200°C) after application of the former layer. If this is impossible, 12 hours of waiting period should be considered and application of the other layer should start. Then, step B should be repeated.

If on your **EPO CARBOSHEET**, a lining layer such as plaster is to be applied, one more layer of the epoxy binder so prepared is applied whereupon, quartz sand dulling takes place. The surface prepared thereby realizes a good adherence with the cement layers to be placed thereon.

At the joint sections in the direction of fibers, the overlapping should be minimum 100 mm.

As for the canvases placed side to side (in parallel direction to the fibers), overlapping is not necessary.

At lower temperatures and/or high relative humidity, the surface can be adhesive. When one layer of additional adhesive or one additional layer of canvas is to be applied thereon (12 hours after application of the former layer) such adhesiveness on the surface should be removed as defined below. Using a wet sponge (saturated to water) wash it and rinse with plenty of water.

The remnants of **EPO BOND CF** should be left in metal containers and in at least 1 kg quantities for hardening.

Protect carbon fiber materials from direct sunlight

In the process of application, temperature of the medium should be 30°C higher than the level of condensing

Maximum service temperature is +500°C.

## CLEANING

All equipment should be cleaned using Toluene (cleaner) right after usage. The cured **EPO BOND CF** can only be removed mechanically from the place where it had adhered.

## SAFETY PRECAUTIONS

Before starting to work, apply naked skin protective cream to your hands. Use protective wears (gloves, goggles etc.). Wash with warm & clean water in case of eye or soft tissue contact and immediately seek medical advice.

## FUNCTIONAL & COMPRESSIVE PROPERTIES

PRODUCT CODE	FIBER TYPE	Number of Filaments	Tensile Strength		Tensile Module		Elongation	Mass/length	Density
			MPa	Kgf/mm <sup>2</sup>	Gpa	Kgf/mm <sup>2</sup>	%	Tex (g/100m)	g/cm <sup>3</sup>
<b>T300</b>									
<b>T300-1000</b>	T300	1000	3530	360	230	23500	1.5	66	1.76
<b>T300-3000</b>	T300	3000	3530	360	230	23500	1.5	198	1.76
<b>T300-6000</b>	T300	6000	3530	360	230	23500	1.5	396	1.76
<b>T300-12000</b>	T300	12000	3530	360	230	23500	1.5	800	1.76
<b>T300-1000</b>	T300	1000	3530	360	230	23500	1.5	70	1.76
<b>T700SC</b>									
<b>T700SC-12000</b>	T700SC	12000	4900	500	230	23500	2.1	800	1.8
<b>T700SC-24000</b>	T700SC	24000	4900	500	230	23500	2.1	1650	1.8

## FUNCTIONAL PROPERTIES

Fiber Type	Compound		Thermal Properties							Electrical properties (/1000) $\Omega + \text{cm}$
	C (%)	Na + K (%)	Specific Isi	Thermal Conductivity			CTE (/1000)(/°C)			
			(cal/cm °C)	(cal/cm s °C)						
				Fiber	Compound		Fiber	Compound		
				Expansion	Trans.		Expansion	Trans.		
T300	93	50	0.19	0.025	0.007	0.001	-410	0.009		1.7
T300J	94	50	0.18	0.022	-	-	-430			1.5
T400H	94	50	0.18	0.025	-	-	-450			1.6
T700S	93	50	0.18	0.022	0.011	0.001	-380	0.007	0.037	1.6
T800H	96	50	0.18	0.084	0.014	0.001	-560			1.4
T1000G	95	50	0.18	0.077	-	-	-550			1.4

