

Product:	FIBAROLL	PDS No. 73(a)
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The improved physical protection and weather proofing of insulation materials is necessary to improve the life of the insulation system and to minimize the risk from corrosion under insulation (CUI). Existing methods and materials suffer greatly from physical damage both during installation and during service allowing moisture ingress at seams and terminations. Once the insulation becomes wet corrosion will cause CUI leading to frequent maintenance, increased downtime and environmental damage.

FibaRoll has been used as an alternative to metal jacketing and mastics to protect insulation material from water and corrosive liquids and thus minimizing the chances of corrosion under insulation. The features that make it suitable for this application are that it is mechanically strong, seamless, waterproof, flexible, can be coloured, has excellent chemical resistance and is fire retardant.

FibaRoll is technically known as a fully composed 'pre-preg' and when cured is a glass re-inforced plastic composite also known as GRP. In its uncured state FibaRoll is a soft, malleable, sheet material. It is supplied between two barrier films and when the bottom surface is stripped it reveals a tacky surface that readily sticks to a wide variety of surfaces. The top film is kept on (unless spiral wrapping) while the material fully cures to give a hard, abrasion resistant/smooth and tough finish.

FibaRoll is supplied with the top surface outermost on the roll and should **not** be applied back to front as there is a protective 'veil' near the top surface, which aids chemical resistance and weathering.

FibaRoll is supplied on rolls wrapped in a black UV blocking bag to exclude any light. The roll core is supported at each end to prevent flat spots developing during storage. The storage bags are double ended allowing removal from either end.



FibaRoll in wooden stillages.20 Rolls per stillage. Stillages can be triple stacked.



FibaRoll in box's. Note the cardboard supports keeping the roll from being damaged. 25 rolls per pallet.

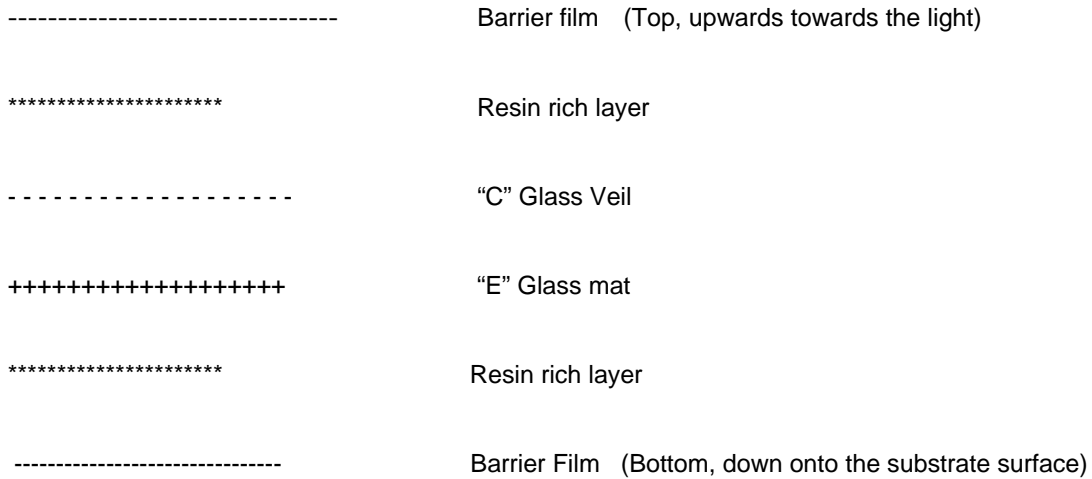


FibaRoll. This roll has been removed from its open ended bag. Note that you can see the top surface; the other side goes down onto the substrate



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FibaRoll can be cut using a modeling knife or scissors however, please remember to keep the cut pieces out of daylight prior to application. A typical construction of FibaRoll is shown below. The veil is of chemical resistant glass and ensures excellent weathering and performance in immersion conditions.



The barrier films help to reduce styrene vapour escaping, to ensure a safe and acceptable working environment. Weathering and UV performance is good for all products with an expected resin weight loss of 1-2% over 10 years. The construction of FibaRoll includes a non-woven glass tissue on the top surface, which provides excellent weathering performance and chemical resistance. In addition the construction lends itself to being re-coated with a resin system which may be necessary after 10-15 years giving the system a life span of well over 25 years. FibaGel is supplied in 2.5 kgs cans and is essentially the same as the base resin used in FibaRoll. These resins are used as primers, fillers or as coatings.

Recommended FibaRoll and FibaGel products for insulation protection applications

FibaRoll FR – Fire Retardant

FibaRoll FR has been developed to have good fire and smoke performance and has been independently tested for fire to Class 1 BS476 part 7 (Warrington Fire Research, UK) and to Class 1 ASTM E84 (Omega Point labs, USA). FibaRoll FR has also been tested and passed the International Maritime Organisation’s fire and smoke test and has therefore been accepted by Lloyds for use at sea (Warrington Fire Research).

This grade combines fire performance with good chemical resistance and excellent mechanical properties. This product has been used to protect insulation on vessels, vessel tops, pipelines and a wide variety of applications within refineries and chemical plants. FibaRoll FR has a maximum operating temperature of 100°C with peaks up to 160°C.

Please refer to specific data sheets for full information on the physical properties of each grade. All physical and chemical resistance properties quoted in the data sheets refer to **fully cured** FibaRoll products.

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FibaRoll requires Ultra Violet (UV) light (wavelength 360 – 420 nm) to cure. For applications where natural daylight is very low or non-existent a suitable artificial light source is required to cure the material (contact us for details). Both FibaRoll and FibaGel products have a standard colour range of natural, white and grey however other colours are available but there are minimum order requirements, please contact us for details. FibaRoll is available in three standard thickness' 1000 microns, 1500 microns and 2000 microns.

FibaGel Material and Grades

FibaGel can be used as a primer to improve adhesion to steel terminations.

FibaGel has two curing mechanisms namely by UV light as per the FibaRoll or 'cold cure' (CC) method, which uses the addition of a catalyst which gives a chemical reaction cure. The FibaGel UV is cured as per the FibaRoll by ultra violet light and subsequently the cure time is light dependent. On a sunny day the cure times for thin applications can be as little as 10 minutes. The cold cure (CC) uses the addition of a catalyst that must be mixed into the gel resin and this gives a cure time of 30-45 minutes dependent on temperature.

All grades are also available in a standard viscosity or a low viscosity (LV) version that can be brush / roller applied.

FibaGel UV or CC (Cold Cure)

This is our standard viscosity, light curing or chemical curing, priming and filler material manufactured from a resin system that is compatible with FibaRoll. This material can be painted on, rolled on or trowelled into place. This is used when the substrate profile is coarser, for example concrete or corroded pipe work. This is supplied in 2.5 kgs cans. The FibaGel UV is light sensitive therefore when not in use replace the lid. The FibaGel CC grade requires the addition of a supplied catalyst and this must be fully stirred in.

FibaGel Low Viscosity (LV) UV or CC (Chemical Cure)

This is a low viscosity, light curing or chemical curing, priming and coating material manufactured from a resin system compatible with FibaRoll. This material can be painted into place. This is supplied in 2.5 kgs can. The FibaGel UV LV is light sensitive therefore when not in use replace the lid. The FibaGel CC LV grade requires the addition of a supplied catalyst and this must be fully stirred in.

FibaRoll and FibaGel products can be over-painted. Once they have fully cured lightly abrade and apply a coating.

Storage Conditions

FibaRoll and FibaGel products should be stored in cool, dry and well ventilated conditions at between 20°C and 23°C. In general, however, the products can be shipped in non-refrigerated containers.

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