BLASTONE
SUPERIOR PERFORMANCE

# POWERCLAD FLAME RETARDANT
## FILTER SHEETING

## DESCRIPTION

Powerclad FTFR is a Flame Retardant Filter Sheeting consisting of a finely woven mesh, which acts as an extremely effective barrier against dust and debris. In terms of tensile strength, it is stronger than any conventional scaffold sheeting on the market. In driving rain, a thin mist will develop on the inside of the sheeting, but protection is provided against direct rain or snow.

## BENEFITS

Improved wind resistance

a) The effects of high winds are greatly reduced due to the closely woven mesh construction

b) Ideal product for exposed site locations

Improved working environment

a) Improves airflow

b) Provides a means of controlling temperature and humidity of work areas

Improved ventilation

Ventilation is particularly desirable in hot and humid climates

Improved productivity

a) For industrial painting, solvents are readily dispersed

b) Improved drying times

c) For Abrasive Blasting, air flow inside without dust extraction

Improved weather protection

Better protection of work surfaces and working environment against the elements, including rain, sleet & snow, dust, sandstorms.

Improved Safety

Powerclad FTFR is flame retardant and can be used in safety critical installations such as shipyards, offshore and petrochemical installations.

## FLAME RETARDANT STANDARDS

Powerclad FTFR conforms to the following Flame Retardant standards:

UK and EU FR Standards

LPS 1215 for external applications
LPS 2107 for internal applications

US FR Standards
NFPA 701 – 1999 TM#2 Flat NC
California Fire Marshall CA 1237
CPAI 84 section 6
Boston Fire Department BFD 1X-1
Port Authority of New York and New Jersey FAA 12 sec vertical

## INSTALLATION

a) Powerclad FTFR incorporates tying loops every 25cm along reinforcement bands spaced 74cm apart along the length of the sheeting.

b) Powerclad Filter Sheeting can be installed horizontally or vertically.

c) Only elasticated Powerties or ball ties supplied by Blastmaster with a breaking strength of 750N should be used for attaching the filter sheeting to the scaffold or fence. Plastic cable ties should not be used, as friction caused by their sharp edges can fray the tying loops.

d) It is recommended that Powerties are installed at a minimum support density of 1 tie per sqm. Where necessary, two Powerties can be attached together to tie the sheeting to the structure.

e) For horizontal overlapped installations, the orientation of the overlap depends on the application. For weather protection, the bottom of the upper sheet should be outside the top of the lower sheet, allowing rainwater to fall off. In the case of containment applications, the opposite is more appropriate to contain debris inside the structure.

f) For horizontal overlapped installations, the upper tying loops should be tied first at equally spaced intervals.

g) For vertical overlapped installations, the roll should be progressively unrolled from the top of the structure and the sheeting tied as the roll is lowered. Unrolling the entire roll prior to tying is not recommended as the roll becomes unwieldy and is liable to flap.

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PETROCHEMICAL STORAGE TANK ENCAPSULATED WITH POWERCLAD FTFR.

POWERCLAD FTFR TIED TO THE SCAFFOLD STRUCTURE, WITH A POWERTIE. NOTICE THE SHORT DISTANCE BETWEEN THE TYING LOOPS.

POWERTIES CAN BE JOINED TOGETHER TO PROVIDE EXTRA REACH IF NECESSARY.

EFFECTIVE OVERLAP OF JOINS AS SEEN FROM THE OUTSIDE.

NOTE THE INCREASED NUMBER OF TIES AT THE CORNERS.

h) All sheeting/netting should be inspected at regular weekly intervals or immediately after windy conditions to ensure that the sheeting is securely tied. Any broken ties or torn sheeting should be replaced immediately.

i) Extra attention should be paid to corners where extra wind forces can be expected and a support density of 2 ties per sqm are recommended for a distance of 3 metres either side of any corner.

## PRODUCT DATA

Air permeability is desirable in many installations to contain debris & dust, dry out interior works, disperse paint solvents and disperse air pressure during stone cleaning or abrasive blasting. Flame Retardant grades should always be used for works on occupied buildings or on safety critical installations such as shipyards and refineries.

Powerclad Filter Sheeting is a closely woven mesh material providing good weather protection in exposed locations and harsh climates. Powerclad Vented Sheeting is a more open woven fabric to provide increased ventilation; it is ideal for printing corporate logos and fits Heras perimeter fencing.

Powerclad Debris Netting is a lightweight knitted net. It provides the least weather protection and is primarily designed to improve site safety by reducing the risk of small tools and objects from falling outside the work area.

| Product | Colours | Weight EN 695 gsm | Tensile Strength ISO 1421 N/50mm | Fastening Strength BS 7955 Newtons | Flame Retardant | Temp. Range ° C | Air Permeability | Aerodynamic coefficient PrEN12811 Cf | Sizes metres | Roll weight kg | Pallet quantity |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **FLAME RETARDANT** | | | | | | | | | | | |
| **Powerclad FTFR** Flame Retardant Filter Sheeting | Blue | 140 | MD 1,000 XD 1,000 | >630 | BS 476 part 12-C (Complies with LPS 1215 Sec 3.1.1) | -40 to +70 | 6 % | 1.0 | 2.12 x 50 3.12 x 50 | 15 22 | 23 23 |

**Fastening Ties**
Toggle Tie BS 7955 Pass Break strength 500 N (28cm reach)
Ratchet Ties 10 inch for debris netting

**Flexo Printing -** Maximum print area 1017 x 800 mm Repeats at 1277mm Up to 6 colours Subject to minimum quantities
**Wide Format Printing –** any size, no minimum quantity

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