

BITUFLAME P 4180, P 4200 & P 4260

APP MODIFIED – POLYESTER REINFORCED – TORCH APPLIED

- **DESCRIPTION**

Bituflame range of modified bitumen waterproofing membranes are manufactured from a rich mixture of bitumen and selected polymers blended together to obtain excellent heat resistance, UV resistance and cold temperature flexibility. Polymerized bitumen then coated onto a dimensionally stable non woven polyester carrier to obtain excellent tensile strength, tear and puncture resistance.

- **USES**

Bituflame is used as waterproofing/damproofing membrane for protection of various substrates in wide range of applications.

- **INSTRUCTION FOR APPLICATION**

Application procedure may vary depending upon site conditions. General application guideline is given below.

Priming

Apply Bitukote Bitumen Primer to a clean, smooth and dry surface by brush, roller or spray. Refer primer data sheet for more details.

Alignment

Unroll and align Bituflame and re roll correctly before torching. Overlap should be 8 to 10mm and end lap should be 100 to 150mm.

Torching

Use gas burner to heat substrate and underside of Bituflame. Embossing on the lower face of the membrane allows a fast and safe laying. When embossing disappears, after torching, the membrane is ready to stick. Roll forward and press firmly against the substrate to bond.

Sealing

Heat both the overlaps and use round tipped trowel to seal the overlap. Excess compound should be smoothed and pressed into seam using hot trowel.

Upstand

All angles and abutments should be sealed with extra care to ensure full bondage. Seal the edges well into the grooves and protect with Bitumastic or Polysulphide sealant.



BITUFLAME P 4180, P 4200 & P 4260

APP MODIFIED – POLYESTER REINFORCED – TORCH APPLIED

- STORAGE**

Bituflame should be stored vertically in clean covered area. Rolls should not be stacked.

- HEALTH & SAFETY**

All safety measures should be observed during application. Fire extinguishers should be available at site. Care should be taken with gas and torch should not be rested on finished surface or on any materials that can be scorched by flame or hot torch. Protective tools, such as gloves and goggles should be worn by all workers during application.

BITUFLAME MEMBRANES P4180, P4200& P4260

TECHNICAL DATA

| PROPERTIES | VALUES | | | TEST METHOD |
|--|---|-------------------|-------------------|----------------|
| | P4180 | P4200 | P4260 | |
| Roll Size – m | 10 X 1 | 10 X 1 | 10 x 1 | |
| Thickness – mm | 4.0 | 4.0 | 4.0 | |
| Unit weight – Kg/m ² | 4.0-4.20 | 4.0-4.20 | 4.0-4.20 | UEAtc |
| Carrier (polyester) weight g/m ² | 180 | 200 | 260 | UEAtc |
| Coating Asphalt | Polymer modified asphalt | | | |
| Softening Point (R&B) °C | 150 | | | ASTM D 36 |
| Penetration at 25°C, 0.1mm | 15 – 25 | | | ASTM D 5 |
| Tensile Strength (L/T), N/5cm | 800/600 | 850/650 | 1100/800 | UEAtc |
| Elongation at break (L.T), % | 40/50 | 40/50 | 40/50 | UEAtc |
| Load strain product (L/T) N | 32,000/ 30,000 | 34,000/ 32,000 | 49,500/ 40,000 | CGSB-37 GP 56M |
| Lap Joint Strength (L/T), N/5cm | >800/600 | >850/650 | >1100/800 | UEAtc |
| Tear Resistance (L/T), N | 180/200 | 200/220 | 220/240 | UEAtc |
| Puncture resistance | Static : L ₄ Dynamic : L ₃ | | | UEAtc |
| Resistance leakage at joints | Pass | | | UEAtc |
| Resistance to water pressure | No Leakage | | | DIN 52123 |
| Water absorption, % (BSP) | <0.15 | | | ASTM D 5147 |
| Heat resistance at 100°C | No flow | | | UEAtc |
| Resistance to aging after 2000 hrs (Weather-O-Meter) | No deterioration | | | ASTM D 4799 |

Tolerance according standards 5 – 20%

04-05



Quality Products since 1994

Manufactured by
GULF MEMBRANE & COATING INDUSTRIES WLL
 P.O. Box 10266, Manama, Kingdom of Bahrain
 Tel : +973 17 770019, Fax : +973 17 774450
 Web site : www.gmcibahrain.com
 e-mail : baderco@batelco.com.bh