**POLARFOAM PF-7211-0+**

**SPRAY APPLIED ‘’DITCH’’ RIGID POLYURETHANE FOAM, 0 ODP**

**Polarfoam PF-7211-0+ is a two component spray-applied rigid polyurethane foam system specially formulated to meet the zero ozone depletion potential (ODP) requirements of the Montreal Protocol and designed for applications requiring high foam buildup block without having any thermal scorching or/and splitting problem.**

**This new friendly environmental generation of ditch foam system contains raw materials made from recycled PET plastic material & renewable Soya beans and 0 ODP blowing agents. It is also free of any of brominated flame retardant.**

**PHYSICAL PROPRERTIES**

**FOAM BLOCK of 3’ wide x 7’ long x 3’ thick Sample**

**Method Description Value**

**ASTM D1622 Average core Density 29 +/- 3 Kg/m3**

 **(1.8 +/- 0.2 lb/ft3)**

**ASTM C518 Thermal Resistivity 2 days @ 230C 1.25 m2.0C/ W**

 **-10°C (50°F) / 35°C (95°F) (7.09 ft2. h.0F/BTU.in)**

**ASTM D2856 Closed Cell Content (%) > 92**

**ASTM D1621 Avg. Compressive Strength 110 kPa 110 kPa (16 psi)**

 **of the core foam block (parallel to rise)**

**ASTM D2126 Dimensional Stability, 7 days**

 **(% Volume Change of core block specimens)**

 **800C, ambient R.H. -0.2**

 **700C, > 97 ± 3% R.H. +6.0**

 **-200C, ambient R.H. -0.4**

**ASTM D2842 Water Absorption (% volume) 0.7**

 **(96 hrs. immersion)**

**The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. The exclusive remedy for all proven claims is replacement of our materials.**

**Polarfoam PF-7211-0+**

**LIQUID COMPONENTS PROPERTIES**

**PROPERTY ISOCYANATE RESIN**

**Colour Brown Blue**

**Viscosity @ 25oC 150-250 cps 100-250 cps**

**Specific gravity 1.20-1.24 1.20-1.24**

**Shelf life\* 6 months 6 months**

**Mixing ratio (volume) 100 100**

**\* See MSDS for more information.**

**Processing Data used for Foam’s properties determination**

**Type of machine : Gusmer H20/35, D gun, #62 mix chamber**

**Primary heater (A&B) : 380C (1000F)**

**Ambient temperature : 210C (700F)**

**Application technique : Continuous spraying with pass having around 4 inches thick from one side of the length (0’) to the other end (7’)**

**Adhesion between overpass : Good**

**REACTIVITY PROFILE**

**Cream time Gel time Tack free time End of rise**

**0+ sec. 4sec. 7 sec. 7 sec.**

**RECOMMENDED PROCESSING PROCEDURES**

**Mixing ratio A/B, volume : 1/1**

**Mixing components temperature (A&B) : 380C (1000F)**

**Pressure of mixing (minimum) : 5516 kPa (800 psi)**

**Substrate & Ambient temperature : 5-350C (41-950F)**

**Curing temperature : >50C (410F)**

**Maximum thickness per pass : unlimited**

**Spray technique : keep moving your gun in way to limit core heat foam build up as low as possible.**

**GENERAL INFORMATIONS:**

**It is recommended that the foam be covered with an approved thermal barrier in accordance to the local and national building codes when used in buildings and a protective coating when used outside. This product should not be used when the continuous service temperature of the substrate is outside the range of -600C to 800C.**

**POLARFOAM PF-7211-0+ December 31, 2013.**