TECHNICAL DATA SHEET: INDUSTRIAL CONTAINMENT SOLUTIONS

Product Series: Envirazone Heavy-Duty Spill Berms & Liners

Material Compliance: High-Tenacity Reinforced PVC & TPU Alloys

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PART 1: REINFORCED PVC CONTAINMENT (650GSM)

The Industrial Problem: Environmental Seepage & Material Decay

Standard liners often fail in workshop environments due to "environmental stress cracking" and low puncture resistance. Furthermore, in damp or poorly ventilated storage areas, standard plastics are prone to fungal growth and microbial rot, which eats away at the structural scrim, leading to catastrophic failure during a spill.

The Envirazone Solution: High-Tenacity Engineering & Bio-Shield

Envirazone reinforced PVC utilizes a **1000D x 1000D polyester base** to solve the problem of structural collapse. Our material is infused with **mould-resistant and anti-fungal agents** during the coating process. This ensures the liner remains structurally sound even when stored wet or used in high-humidity environments, preventing the "bio-rot" that destroys cheaper alternatives.

Technical Specifications (PVC)

- **Tensile Strength:** ~2300 N / 2000 N (5cm). This solves the risk of the berm splitting when filled to maximum capacity.
- **Tear Strength:** ≥ 390 N / 630 N. High-strength polyester yarns prevent minor snags from propagating into major leaks.
- **Fire Retardancy:** Formulated to meet **DIN 4102 B1 or NFPA 701** standards. This solves the risk of the containment system acting as a fuel source in a workshop fire.
- **Flex Crack Resistance:** Rated for >50,000 flexes. This solves the "crease-leak" problem common in portable berms.
- **Mould Resistance:** Treated with biocides to ensure the material passes standard anti-fungal testing, preserving the fabric's integrity.

PART 2: ADVANCED TPU ALLOY CONTAINMENT (650GSM)

The High-Risk Problem: Fire Hazards & Chemical Aggression

In many facilities, spill berms are located near welding or grinding operations. Standard liners can ignite easily, turning a chemical spill into a fire disaster. Additionally, hydrocarbons often act as a nutrient for certain bacteria, leading to degradation of the material surface.

The Envirazone Solution: The Ultimate Chemical & Fire Shield

Our **TPU (Thermoplastic Polyurethane)** is engineered for extreme environments. It is inherently more resistant to microbial attack than PVC and is treated with high-performance **fire retardants** to ensure safety in "hot work" zones. It provides the ultimate solution for fuel-grade spill berms and long-term chemical containment.

Technical Specifications (TPU)

- **Superior Chemical Inertness:** Engineered to resist oils, greases, and fuels that degrade standard liners.
- **Flame Resistance:** Self-extinguishing properties ensure that sparks or embers do not ignite the containment zone.
- **Extreme Abrasion Resistance:** TPU is significantly tougher against wear-and-tear from heavy machinery tires, solving the problem of surface thinning.
- **Mould & Rot Proof:** The molecular structure of our TPU alloy is inherently resistant to the biological degradation common in outdoor secondary containment.
- **Weld Integrity:** TPU-to-TPU molecular bonds are as strong as the base fabric itself, ensuring zero-leak seams.

PART 3: COMPREHENSIVE ENGINEERING & LOAD DATA

Material Grade	Thickness/Weight	Standard Width	Mass-per-Meter	Fire Rating	Biological Defense
Heavy-Duty PVC	650 g/m²	2500 mm	**1.62 kg/m**	**B1 / M2**	**Mould Resistant**
Heavy-Duty TPU	650 g/m²	2000 mm	**1.30 kg/m**	**Self-Extinguishing**	**Anti-Fungal**

PART 4: OPERATIONAL CHARACTERISTICS

- **Self-Cleaning Surface:** Both materials feature a high-gloss acrylic lacquer that repels dirt and allows for rapid decontamination after a spill.
- **UV Protection:** Integrated UV stabilizers extend the material life to **5–10 years** in outdoor environments, solving the problem of sun-bleaching and UV-rot.
- **Anti-Fungal Treatment:** Chemical inhibitors prevent the growth of mould and mildew, ensuring the berm does not smell or degrade during long-term storage.
- **Safety Compliance:** Certified fire retardancy ensures that Envirazone berms meet strict health and safety protocols for industrial facilities.

Envirazone Technical Support

Verified Containment | Heavy-Duty Strength Standards | info@envirazone.co.uk