



# XEAL FPO

## Technical Datasheet



### PRODUCT OVERVIEW

XEAL FPO is a high-performance, flexible waterproofing membrane made from flexible polyolefin (FPO). It combines long-term durability with outstanding chemical resistance and is designed to perform under the toughest construction conditions. Reinforced with a non-woven fabric, the membrane provides excellent dimensional stability and mechanical strength.

### APPLICATION AREAS

XEAL FPO is ideal for a wide range of waterproofing and sealing applications, including:

- ▶ Wet areas such as bathrooms, showers, and kitchens
- ▶ Balconies, terraces, and podiums
- ▶ Flat and sloped roofs
- ▶ Swimming pools and water tanks
- ▶ Below-grade structures including basements and foundations
- ▶ Infrastructure works like tunnels and bridges
- ▶ Industrial facilities requiring chemical and weather resistance

### KEY FEATURES

**Flexible Polyolefin (FPO) Material:** Free from plasticizers, halogens, and heavy metals

**Superior Flexibility:** Adapts easily to surfaces and movements without cracking

### TECHNICAL SPECIFICATIONS

| PROPERTIES                    | VALUE                              |
|-------------------------------|------------------------------------|
| Base Material                 | Flexible Polyolefin (FPO)          |
| Reinforcement                 | Non-woven polyester fabric         |
| Thickness                     | 1.2 mm / 1.5 mm / 2.0 mm (options) |
| Width                         | 1.0 m / 1.5 m / 2.0 m              |
| Roll Length                   | 20 m / 25 m (custom on request)    |
| Tensile Strength (EN ISO 527) | ≥ 8 N/mm <sup>2</sup>              |
| Elongation at Break           | ≥ 400%                             |
| Tear Resistance (nail test)   | ≥ 150 N                            |
| Water Tightness (EN 1928)     | Passed – 6 bar                     |
| UV Resistance                 | ≥ 5000 hours                       |

**High Mechanical Strength:** Excellent resistance to punctures and tearing

**Thermal Stability:** Performs reliably across a wide temperature range (-30°C to +90°C)

**UV and Weather Resistant:** Suitable for exposed and concealed installations

**Chemical Compatibility:** Withstands many common acids, bases, and cleaning agents

**Hot Air Weldable:** Secure, seamless jointing for leak-proof sealing

**Root Resistance:** Safe for use in green roof systems

### INSTALLATION GUIDELINES

**Surface Preparation:** Ensure the surface is clean, dry, and free from loose particles. Priming may be needed depending on substrate type.

**Application:** XEAL FPO membranes are installed using hot air welding for seam connection. Mechanical fixing or adhesive bonding may be used as appropriate.

**Overlap:** Minimum 5 cm overlap is recommended for effective sealing.

**Detailing:** Corners, edges, and pipe penetrations should be sealed with pre-molded pieces or extra layers using welding.