

# **SMARTPLY®**

## **SITEPROTECT / SITEPROTECT PLUS**

SMARTPLY SITEPROTECT is a highly engineered and improved moisture resistant OSB3 pre-primed panel specifically designed to save both time and money in the most demanding hoarding applications.

The substrate is coated with a smooth, heavy duty, cross-linked polymer primer making it ideal for use in a wide range of applications from temporary hoarding through to long-lasting site security installations.

Now, to meet demand for a doubled sided board, there is also SITEPROTECT PLUS.

This OSB3 panel is coated with the primer on both sides, making it ideal for premium applications in those high profile locations.

SMARTPLY SITEPROTECT is manufactured using only FSC® certified timber and is therefore perfect for maintaining sustainability throughout your entire site.

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## SITEPROTECT / SITEPROTECT PLUS

### QUALITY AND ENVIRONMENTAL CERTIFICATION

SMARTPLY OSB is manufactured in accordance with the requirements of EN 300: Oriented Strand Boards (OSB) – definitions, classification and specifications.

SMARTPLY OSB is CE marked in accordance with the harmonised standard EN 13986: Wood-based panels for use in construction - characteristics, evaluation of conformity and marking. This standard is a technical specification for wood-based panels which implements the provisions of the Construction Products Regulation (CPR). In addition to the CE mark, SMARTPLY OSB panels are marked 2+ Structural for ease of reference.

SMARTPLY OSB3 is certified by the British Board of Agrément (BBA) and the Irish Agrément Board (IAB). Due to this certification it is permitted for structural use by NHBC (UK) and Homebond (Ireland) when used in accordance with the requirements of the Building Regulations in the country of use. Other quality certification includes SINTEF (Norway) and KOMO (Netherlands).

SMARTPLY has achieved I.S. EN ISO 9001, the internationally recognised quality management system which is certified by the National Standards Authority of Ireland (NSAI).



SMARTPLY has Forest Stewardship Council (FSC) Chain of Custody certification for its manufacturing, processing, sales and distribution processes.

SMARTPLY operates under an Integrated Pollution Prevention Control (IPPC) licence, which is monitored by the Environmental Protection Agency (EPA) in Ireland.

All SMARTPLY OSB3 products are manufactured using formaldehyde-free resin.

### SUITABILITY

As with all site hoarding panels, the performance of the SMARTPLY SITEPROTECT range will depend on the time and severity of exposure to the elements. Slight distortion of panels may occur as a result of extreme exposure and poor site workmanship. Therefore, to obtain the optimum performance and life expectancy of the product; good specification, planning and workmanship is required in the following three areas:

**1 Hoarding frame design and erection:** A well-designed and properly erected timber hoarding frame is essential to provide the required support and fixings for the SITEPROTECT panels. A 'post and rail' frame with three horizontal rails is most commonly used, although SMARTPLY recommends four rails for optimum performance.

Another recommended alternative is the 'timber frame' type panel with vertical studs which can provide more support for fixings, in particular the long panel edges. A double bottom rail or noggins are required to provide edge fixing support for the bottom of the panels since the panel edges must be at least 50mm above ground level. This is essential to prevent cupping of the panel edges.

**2 Fixing of panels:** The type of fixings and their method of driving are critical to the performance of the SITEPROTECT range. Not only are the fixings required to hold the panels rigidly onto the hoarding frame, they are essential in maintaining a high-quality surface finish when the hoarding is painted on site. The SMARTPLY SITEPROTECT range underwent rigorous long-term testing on a purpose-built exterior weathering test rig with different types of fixings, using (i) fastener performance, (ii) ease and speed of driving and (iii) consistency of flush finish as key performance criteria. A collated screw driving system with a non-slip nose piece is recommended and the 'Quik Drive® Auto-Feed Screw Driving System' from Simpson Strong-Tie was used on the test rig with excellent results.

**3 Paint system and finish:** SITEPROTECT panels are supplied with a smooth pre-coated face and coated edges, which removes the need to prime, thus resulting in significant cost savings. It is essential that the product receives minimum two liberal finishing coats of a high quality exterior grade oil/solvent based gloss paint system, ideally applied in dry conditions and allowed to cure fully. As SITEPROTECT PLUS is double sided, it will require finishing on both sides.

Detailed guidance on the erection, fixing and painting of the panels is provided in the 'Installation' section of this Technical Datasheet.

## SPECIFICATION AND DESIGN

It is important to ensure that the SMARTPLY SITEPROTECT panels specified by the designer are those used on site. SMARTPLY SITEPROTECT panels are clearly marked with the following information, however SITEPROTECT PLUS panel markings will not be visible due to additional coating.

- a** Major axis (length of panel, direction of laying arrows)
- b** Production identification number
- c** Product Certification mark (e.g. BBA, IAB)
- d** CE marking
  - i. Manufacturer's name / Logo (SMARTPLY)
  - ii. Notified body identification number
  - iii. Quality standard (EN 300, EN 13986)
  - iv. Panel type OSB3
  - v. Thickness 16mm or 18mm
  - vi. Formaldehyde class (e.g. E1)
- e** Additional marking for ease of reference (e.g. 2+ structural)
- f** FSC certification

The standard SMARTPLY SITEPROTECT range is available in 2440 x 1220mm wide panels. Panels up to 3050mm long are available on request. Panels are 16 or 18mm thickness.



## TRANSPORTATION, STORAGE AND HANDLING

Careful transportation, storage and handling are important to maintain panels in optimum condition prior to use.

- 1** Panels should be stacked flat and supported upon a minimum of three equally spaced bearers (full packs come with bearers already attached).
- 2** Panels should never be stacked on their edges otherwise panel distortion and damage to the edge coating may result.
- 3** Although the SMARTPLY SITEPROTECT range is designed and manufactured for external use it is still necessary to protect the panels from the elements during storage, to avoid damage to the face and edge coatings. All packs leaving the factory are protected by a polythene wrapping and have bearers strapped to the undersides. Re-use polythene wrapping to provide weather protection to open packs during erection or site delays.
- 4** When transporting the SMARTPLY SITEPROTECT range in less than full pack quantities, panels must be adequately covered and banded (ensuring edge protectors are used top and bottom to avoid damage by the bands).
- 5** Do not leave packs or panels exposed to the weather prior to erection.
- 6** Do not allow water to pool on the surface of open packs or panels during erection.

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### INSTALLATION

To obtain the optimum performance and life expectancy of the SMARTPLY SITEPROTECT range, the product must be installed as follows:

Prior to erecting SITEPROTECT panels, ensure that the timber hoarding frame has been constructed to a suitable specification that provides adequate support for panel edges and fixings as described in the 'Suitability' section of this technical datasheet (this will prevent panel distortion).

- 1 Paint all panel edges with two liberal coats of a quality exterior grade oil/solvent based gloss paint, allowing sufficient drying time between coats. Pay particular attention to any cut edges and the short edge that will form the top of the hoarding, as this will be exposed to the worst of the elements (we recommend top capping to provide extra protection).
- 2 Ensure panels in the SMARTPLY SITEPROTECT range are erected a minimum of 50mm above soil and well clear of any low-lying water.
- 3 Provide a minimum 3mm expansion gap between panels when erecting on to the timber framing (we recommend joint strips to provide extra protection).
- 4 Provide a minimum 10mm expansion gap where panels abut walls and other solid surfaces (we recommend a joint strip to provide extra protection).
- 5 Fix panels to supporting timber framing with 50mm galvanized screws ensuring these are spaced at between 200 – 300mm centres. Ensure that screw heads finish flush with the panel surface (we recommend the use of a depth sensitive bit holder and that it is adjusted accurately).
- 6 Paint all screw heads\* using a liberal application of a quality exterior grade oil / solvent based gloss paint.  
\*If the screw heads are mistakenly driven below the panel surface, the screw holes must be filled with a quality exterior grade flexible wood filler, allowed to dry, and then painted over with oil / solvent based gloss paint.
- 7 Fix joint strips, top and bottom skirting and top capping, taking care not to damage the panel edges.
- 8 Finally, paint the pre-primed side of the SMARTPLY SITEPROTECT panels with two liberal coats of gloss paint in a colour and design of your choice.

For best results, we highly recommend painting the panels indoors in dry conditions prior to erection, followed by a finish coat on site including touching up of the screw heads as described in #6 above.

### IMPORTANT NOTES

The recommendations provided in this Technical Data Sheet for the correct use of the SMARTPLY SITEPROTECT range are specifically designed to ensure longevity and performance of this quality product in service. It is therefore essential that these recommendations are strictly followed. The product is designed to be installed by a competent general builder, or a contractor, experienced with this type of product. SMARTPLY EUROPE DAC cannot be held responsible for damages arising from non-adherence to these recommendations, or product failures resulting from inadequate structural design or misuse of this product.

### CONTACT US

For further information and/or technical advice please contact your local SMARTPLY Sales Representative or SMARTPLY Technical Support Personnel through any of our European offices.

**UK: +44 (0) 1322 424900**

**Ireland: +353 5 181 0205**

**Germany: +49 32221097221**

**France: +33 975189830**

**Netherlands: +31 858886230**

**Belgium: +32 28086256**

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INNOVATIVE TIMBER PRODUCTS

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