

Promenade Tiles Technical Details

Performance

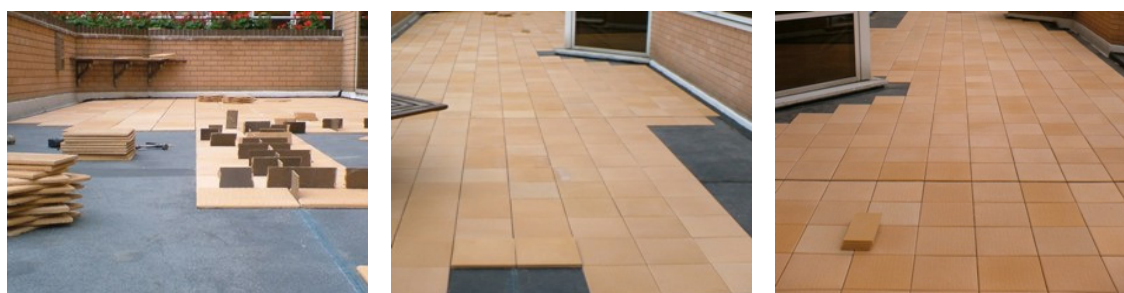
The tiles have been extensively evaluated and exhibit excellent tensile and impact strength. Freeze-thaw tests show the tiles to be unaffected by climatic extremes normally experienced in the UK. In addition they are solar reflective providing UV degradation and thermal stress protection. Classified as non-combustible and designated Class 0 for building regulations.

Storage

Packed ex-works onto wooden non-returnable pallets of 500 with foam sheet cushioning and shrink wrapped for maximum protection. Pallets should not be stacked more than 2 high on a level base, avoid point loading. It is essential the pallets are stored in dry conditions at all times to prevent water ingress. **Failure to comply with this may result in staining, discolouration and efflorescence.**

Appearance

With the exception of grey tiles finest quality iron, chrome and titanium oxides are incorporated at optimum levels to achieve an attractive range of colours. Tiles are resistant to fade by UV light under normal climatic conditions. Due to the inclusion of naturally occurring minerals and the possibility of differential drying colours and shade variations may occur between batches. The true aesthetic of the tile may not be revealed until exposure to sunlight and weathering have taken place. Whilst every effort has been made to combat surface efflorescence; high levels of cement are required for strength, the addition of a lime reacting agent (Metakaolin) should minimise the risk as far as is possible. In the event of staining or discolouration toughness, performance and all other characteristics will not be affected.



Site Preparation

The substrate should be cleaned and properly prepared to receive tiles; debris, loose material and standing water must be removed prior to work commencing. The roof should be laid to a minimum fall of 1:80 but not exceeding 1:40. Any unevenness or defects in the roof must be made good to ensure a level surface on which to tile. Squares must be marked out on the intended area allowing for manufacturers tolerances and for equal margins where cut down widths may be needed. A 3mm gap should be left between tiles to allow for building movement as well as to maintain straight joints. Where tiled areas exceed 9sq. metres an extra movement joint of 15mm should be provided at 3 metre intervals in both directions. Similarly this joint must also be formed at perimeters, abutments and junctions of bays. A pointing compound suitable for this application may be used to fill the joints. Special attention should be paid when laying tiles onto build-up felt systems, manufacturers advice should be sought to avoid projection at overlaps which in turn may lead to point loading.



Promenade Tiles Technical Details

Cutting

It is recommended cutting tools are equipped with diamond tipped blades, this will result in a cleaner cut. DO NOT cut tiles near finished areas as the dust produced will solidify and stain on contact with laid tiles. Tiles strips cut less than 75mm (quarter tile) should be avoided. Suitable PPE must be worn to protect against the inhalation of dust.

Fixing

Eurodec PU Adhesive can be used to bond Eurodec tiles to both felt and asphalt. Tiles must be laid in accordance with manufacturers instructions. See specification below.

Hot bitumen may be used to bond tiles to felt roofs only. The compound should be heated to the correct temperature to facilitate the proper flow characteristics. Enough hot bitumen must be applied to ensure each tile is fully bedded and the marked squares are followed. Adequate downward pressure should be applied to the tile to achieve a complete bond. To maintain a level surface for adjacent tiles excess bitumen must be spread or removed immediately. Should bitumen be spilt onto the tile surface adequate time must be allowed for it to cool before removal. Care must be taken when working with hot bitumen. All necessary risk assessments must be undertaken prior to work commencing, applicable PPE worn and relevant COSHH and material safety data sheets available to the user.

Under no circumstances must hot bitumen be used to fix tiles to asphalt. The use of cold applied bitumen and other non approved fixing compounds should be avoided. These may contain solvents and other chemicals harmful to bituminous based substrates. If in doubt the manufacturer's advice should be sought before commencing work.

Lithofin MN Stain Stop

In common with all cement based products, spillages from foodstuffs, algae growth and airborne contaminants can lead to staining and discolouration. Where the aesthetic appearance is especially important it is advisable to protect the tile surface. Eurodec Promenade Tiles has combined with Lithofin, recognised as the worlds leading manufacturer of products for the cleaning, protecting and maintaining of stone, ceramic and concrete tiles. On request tiles can be factory treated with Lithofin MN Stain Stop. For in-situ applications MN Stain Stop Eco a water based version is recommended, this can be supplied in either 1 litre or 5 litre quantities depending on the size of the area. Lithofin cleaning and maintaining products are also available, please contact us for further details.

Maintenance

Provided the roof has been correctly designed and constructed, a roof finish in Eurodec Promenade Tiles, subjected to normal pedestrian traffic will only require minor maintenance. In a similar manner to other concrete paving products algal growth, weeds or moss may occur. This can be treated with the use of a propriety biocide. Damaged tiles should be replaced as soon as possible. Any colour difference between new and existing tiles should diminish with age. Tiles may become discoloured with time, the rate depending on the locality. Appearance may be restored by cleaning with warm water and a stiff brush. There may be gradual change in colour but this should not be excessive provided the tiles are not subject to standing water. The tiles have good abrasion resistance. However, care must be taken when moving patio furniture and maintenance equipment. To avoid scuff marks caused by rubber feet, or excessive wear from metal feet, chairs and tables, furniture should be lifted not dragged. Acid based cleaners must not be used, test any cleaner on a small area before use. Similarly high pressure washers must be avoided as the jet can damage the surface as well as weaken the bond between the tile and substrate. Staining can arise from food and drink spillages or from plants in the immediate vicinity. It is highly advisable to treat the tiles with Lithofin products (see above) to help protect against these occurrences.