



GRATEART
Technical Information

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FIXING

Fixed with heavy duty self drilling TEK screws and concealed by granulated rubber plugs.

PRESSLOCKED GRATING LOADING

Contact Hallweld Bennett.

IMPACT ABSORPTION

Tested to AS/NZS 4422:1966 with samples on a concrete floor

FIRE RATING (AS 1530 PT.3)

Ignitability Index (0-20) 15

Spread of Flame Index (0-10) 8

Heat Evolved Index (0-10) 10

Smoke Developed Index (0-10) 8

ACCELERATED AGEING

(AS 2963.15 DETERMINATION OF HEAT AGEING)

Tropical Storage 100OC in oven for 6 days continuous - No Change.

Tropical Ageing 40OC at 95%RH for 6 days continuous - No Change.

Wet Ageing Continuous immersion in water at 60oC for 6 days - White crazing - wipes off.

Cyclic Climate Change 70OC at 95%RH for 24 hours to 25OC at 95%RH for 24 hours - 20 cycles - No Change.

Freeze Thaw Minus 10OC for 8 hours then thawed 20 cycles - No Change.

FUNGAL AND ALGAL RESISTANCE

This product is not susceptible to fungal or algal growth even after repeated inoculations.

SLIP RESISTANCE (AS/NZS 3661.1)

Evaluation Criteria: Very Poor = 0.00 - 0.19 Poor = 0.20 - 0.39

Good = 0.40 - 0.75 Excellent = >0.75

Wet Test (method = Pendulum Test) Coefficient of Friction = 0.46

Dry Test (method = Tortus Test) Coefficient of Friction = 0.80
(minimum acceptable value = 0.40)

FORCE REDUCTION (DIN 18032 PART 2) 55%

In the mid range specified for sports surfaces. Tests indicate the material will not compact with use to a much harder surface.

ACOUSTIC TEST <45dB(A)

Tested by registered Laboratory under controlled conditions. Sound levels for an 80kg male walking on 15mm Safety Surfacing Solutions surface in leather shoes measured @ 1.5m is 40dB(A) re 20 microPascals. This level is equivalent to background noise in a quiet bedroom at night.

CIGARETTE BURN RESISTANCE

No change. Minor loss of pigment on coloured surfaces only.

CHEWING GUM RESISTANCE

Gum chips off when hardened. Ice will assist in hardening of gum.

ABRASION RESISTANCE

Taber Abrader - 2000 cycles, 1000g weight, h18 wheel - 0.3957g loss.

SURFACE RESISTANCE

AT 30OC IN DIRECT SUNLIGHT

Black Surface 40OC

Terracotta Surface 34OC

Green Surface 37OC

TENSILE STRENGTH

At 850kg/m³ - 1822mPa (264psi)

THERMAL STABILITY (AS 2983.17)

14 days in 80OC water bath - no change.

COMPRESSION LOAD RESISTANCE

(AS1683.13) (ASTM 395D)

22 hours at 70OC at 25% compression: 850 density 41.8%

900 density 38.4%

Technical data provided by Safety Surfacing Solutions

See more at grateart.com.au

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