



Allunga Exposure Laboratory

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Attention Hayden Bone

Tapis Rouge Pty Ltd

1/3472 Main Beach Road
Main Beach Qld 4217

Report Name PVC MAT/ Y, R, DB, LB @ 2 Months

Duration 2 Months

Your Reference PVC MAT/ Y, R, DB, LB

Our Reference 20J02TR1-4

Report Date 02-Dec-2020

Exposure Type: Altrac
Date Exposed 02-Oct-2020

Book & Page: 630/38
Site: Townsville (Main)

Authorised AEL Signatory: Pamuela Cooper

Note:

RADIATION

Radiation @ 2 Months: 02/12/2020 = 5353.6 MJ/m². Equivalent to 8 Months 17 Days on open exposure at Townsville, North Queensland.

REPORT STANDARDS

VISUAL ASSESSMENT OF CHANGE

Based on Standard: AS/NZS 1580.481.1:1998 Coatings Exposed to Weathering (12 Parameters of Change)

Rating scale: 0-5. 0 = No change, 5 = Complete change

LEGEND

af = adhesion failure
b = bluer
d = darker
i = increase
l = lighter
t = trace
y = yellower

INSTRUMENTAL COLOUR

Standards:

AS/NZS 1580.601.2: Colour – Principles of colour measurement
AS/NZS 1580.601.3: Colour – Methods of colour measurement
AS/NZS 1580.601.4: Colour - Calculation of colour differences

Delta E values derived by comparing current Instrumental colour data with initial Instrumental colour data.

Calculation: Delta E = Square root of the sum of the squares of Delta L* and Delta a* and Delta b* (Magnitude of total change in colour).

INSTRUMENTS

Spectrometer: Hunter Lab MiniScan XE Plus, Diffuse 8° Sphere, Settings: Illuminant D65/10°.

Evaluation based on As 1580.481

1.1 General Appearance
1.2 Discolouration
1.3 Dirt Collection
1.4 Dirt Retention
1.5 Change of Gloss
1.6 (E) Erosion
1.7 (F) Checking
1.8 (G) Cracking
1.9 (H) Flaking & Peeling

1.9 (J) Blistering
(K) Visible Rusting
1.11 (L) Chalking
1.13 Mould, Algae, Fungus
FIC Ford Image Clarity
FD Film Defects
d Darker
l lighter
r redder

Colour: D65/10

All Samples Tested As Received

b bluer
y yellower
g greyer
wh whiter
f fade
i increase
c continued
w wide variation
t trace

length measurements in mm

m includes mould
loc localized
nnc no noticeable change
sd surface distortion
ws water spotting
af adhesion failure
S slight
md moderate
sv severe



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Client Ref	Colour Change	L*	a*	b*	Delta L*	Delta a*	Delta b*	Delta E*
PVC MAT - Yellow	2 l	51.8	5.7	42.4	-5.5	-7.1	-13.6	16.3
PVC MAT - Red	0-1 l	30.7	35.7	42.4	2.7	0.7	21.8	22.0
PVC MAT - Dark blue	2 l	28.0	-2.3	-25.8	2.2	-2.7	1.3	3.7
PVC MAT - Light blue	2 d b	44.1	-15.5	-11.0	3.7	3.1	4.0	6.3

Client Ref.	Comments
PVC MAT - Yellow	Possible trace of heat distortion: areas of different shades of colour; Colour change rating varies from 1 to 2. Slightly tacky.
PVC MAT - Dark blue	Possible trace heat distortion: areas of different shades of colour; colour change rating varies from 1 to 2. Increase tackiness.
PVC MAT - Light blue	Probable heat distortion: areas of different shades of colour; colour change rating varies from 1 to 2. Increased tackiness.

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