



U-DEK[®] TESTING & COMPETITOR ANALYSIS



Last Updated: October 2022

U-DEK® MARINE FLOORING IS TRUSTED BY AUSTRALIAN OEM'S AND BOAT OWNERS ALIKE

ABOUT US

Manufactured by Ultralon Foam Group, **certified to ISO9001:2021**, U-Dek® is the quality choice for marine flooring in Australia.

We are foam manufacturers. Our tightly controlled manufacturing processes, using only high quality, non-hazardous raw materials, plus a high level of technical expertise and the latest moulding technology and equipment, place us amongst the most highly regarded PE and EVA foam manufacturers in the world.

This approach enables us to offer customers quality, reliability and consistency of product, and makes ours the foam of choice for demanding applications.

U-DEK® TESTING

U-Dek® by Ultralon is the **first to conduct Australian based** testing of closed cell marine foam flooring. Blind tests have been carried out by independent laboratories with excellent results.



U-DEK® IS CERTIFIED FOR

ASTM G154

ASTM D3575

AATCC 175

Keep reading and let the results speak for themselves.



UV EXPOSURE TEST NO.1

STANDARD

ASTM G154

WHAT IS IT? The evaluation of the resistance of a non-metallic material to simulated sunlight and moisture exposure.

When rays of sunlight, particularly UV rays, bombard a surface, they degrade smaller pigment particles, changing the surface colour and can cause cracking, peeling and loss of mechanical properties.

The QUV accelerated weathering tester is the most popular test whereby U-Dek® and competitor samples are exposed to a cycle of 8 hours of UVA-340 light at a temperature of 60°C, followed by 4 hours of condensation at 50°C for a total of 500 hours.

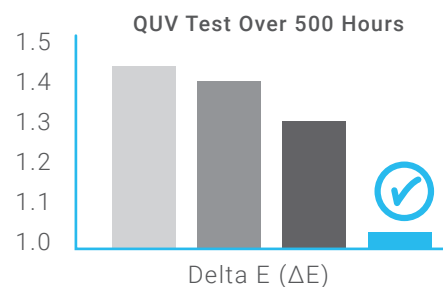
Delta E (ΔE) is a measure of material colour change due to UV exposure & degradation.

OPTIMAL VALUE Values closer to 1 represent minimal colour change/polymer degradation.

RESULTS As seen in Table 1, U-Dek® showed the least colour change and material degradation when exposed to the conditions your boat would be exposed to in the harsh Australian environment.

SAMPLE	E (ΔE)
Competitor A	1.44
Competitor B	1.40
Competitor C	1.31
U-DEK®	1.05

Table 1



Competitor Sample
Foam discolouration after 500 hours



U-Dek® Sample
Foam shows little to no discolouration after 500 hours



How to Avoid Light Amplification

Inflatable pool toys or water bottles stored long-term on decking, or placing decking near reflective surfaces or beneath glass. These objects can refract/reflect light, thereby concentrating the beams to a level which can be destructive to the decking.

Reducing longer term exposure to the elements, when not in use, will help extend the life of your decking and reduce colour fade. (E.g. keeping the boat: in a garage, covered with a canvas boat cover, in a covered boat slip/shed, etc).



TERMS & CONDITIONS AND PRIVACY POLICY

Scan the QR code or go to <https://qrco.de/bcznvc> to view



U-DEK® WARRANTY DOCUMENT

Scan the QR code or go to <https://qrco.de/bd0o5r> to view



DIMENSIONAL STABILITY

TEST NO.2

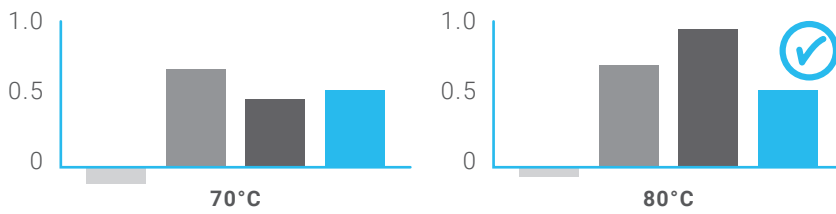
WHAT IS IT? Dimensional stability is a measurement of a materials' ability to maintain its original shape when subjected to varying degrees of stress (**heat, moisture, pressure**).

To conduct this test, U-Dek® and competitor samples are subject to various temperatures (with the standard being 70°C) under defined pressures. The samples will expand and contract to various degrees under these conditions as a result. Ultralon's chemists have refined our formula to **achieve the best results without sacrificing** other important properties for marine applications.

SAMPLE	70°C	80°C
Competitor A	- 0.1	- 0.04
Competitor B	0.6	0.77
Competitor C	0.45	0.92
U-DEK®	0.5	0.21

Table 2

ASTM D3575-08 Test Results



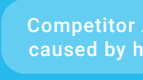
STANDARD ASTM D3575

RESULTS Table 2 shows the change in dimensions due to stress. The first at 70°C, which is the standard, shows very little difference in the change in dimension between all the samples tested except for one (competitor A). This sample was further tested and found to have a very high level of filler added which directly correlates to the poor QUV results in the previous test.

When the test temperature was then increased to 80°C the U-Dek® sample showed no further change in dimension meaning that the **U-Dek® formulation is less susceptible to the extremes of the marine environment.**



Competitor B's shrinkage caused by heat exposure



Competitor A's shrinkage caused by heat exposure

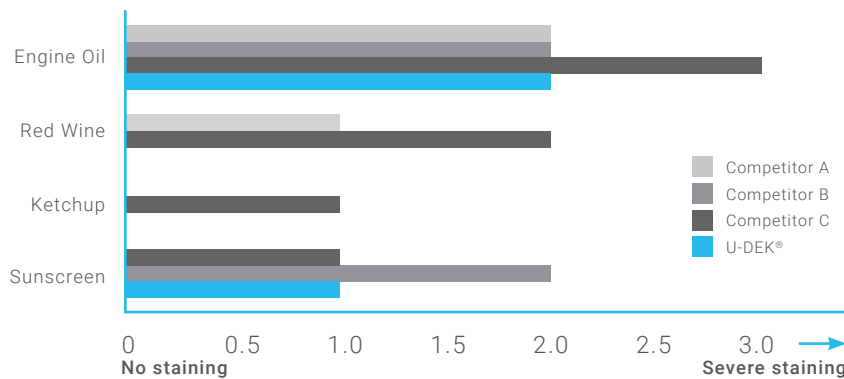


STAIN RESISTANCE

TEST NO.3

WHAT IS IT? This test measures resistance to common staining agents such as wine, petrol, ketchup, sunscreen and engine oil. It is measured on a scale of 0 – 5.

ASTCC 175 Stain Resistance Test Results



STANDARD The accepted standard test for flooring coverings is AATCC 175.

SCALE 0 No staining

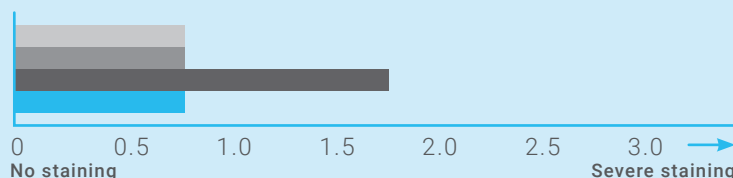
SCALE 5 Severe staining

RESULTS U-Dek® scored an average of 0.75 showing excellent resistance to the most common staining occurrences that can happen on your boat.

Ultralon Foam Group have been manufacturing high performance closed cell foam for over 50 years. We use this knowledge and technology to produce the finest quality flooring made to withstand the harsh Australian marine environment.



Average across samples



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Put the U in U-DeK®.

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Takura QLD, 4655
P: 0455 822 339

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QLD 4216
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PUT THE U IN U-DEK®.

GET IN TOUCH

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U-DEK® foam flooring is the way to go. You know it. We know it.