

Introduction

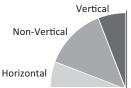
Metamark warrants to its customers that graphics and markings produced using Metamark products will remain in satisfactory condition for a term no less than that defined as the expected durability as detailed in Metamark's technical bulletins. Listed external durability's are based on vertical exposure under Northern European conditions (this refers to the unprinted vinyl, refer to ink manufacturer for durability of the finished product). The product will remain in satisfactory condition, effective for its intended purpose, and not deteriorate excessively, eg: from shrinkage or discolouration, within the listed durability term.

The regional climate of a country is the main factor which will reduce the expected performance, along with the angle and exposure of the application. Other points to consider are preparation of the substrate, method of application, cleaning and maintenance process. The user must ensure that graphics and markings produced using Metamark products are suitable for their intended use and installed in accordance with the published methods and best practices.

Angles of Exposure

Graphics will be affected and external durability altered depending on the angle and exposure. The different angles of exposure are detailed as follows:

Vertical Exposure: ±10° from vertical Non-Vertical Exposure: 11° to 69° from vertical Horizontal Exposure: 70° - 90° from vertical



zontal Exposure

Zone 3

4 3

2

1.5

1 0.5

Zone Durability

The below figures show the external performance in years expected in the different listed zones. These are determined by regional climate and angle of exposure.

Vertical Exposure	Vertical Exposure		Non-Vertical, Horizon	
Zone 1	Zone 2	Zone 3	Zone 1	Zone 2
12	10	7	6	5
10	8	6	5	4
8	6	4	4	3
7	5	3.5	3.5	2.5
6	4	2	3	2
5	3	1.5	2.5	1.5
4	2	1	2	1
3	1.5	0.5	1.5	0.5
2	1	-	1	-
1	0.5	-	0.5	-

For further technical support email technical@metamark.co.uk or call +44 (0)1483 571111

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Zones Defined

The durability of a product is effected by regional climate. Counties have been categorised into three separate groups depending on their region and climate.

Zone 1	1 Zone 2		Zone 3				
Andorra	Argentina	Singapore	Afghanistan	Indonesia	Sri Lanka		
Austria	Armenia	Solomon Islands	Albania	Iran	St. Kitts & Nevis		
Belarus	Australia*	South Africa	Algeria	Iraq	St. Lucia		
Belgium	Azerbaijan	South Korea	Angola	Israel	Sudan		
BIH	Bangladesh	Spain	Antigua & Barbuda	Jamaica	Suriname		
Bulgaria	Bhutan	Taiwan	Australia ¹	Jordan	Swaziland		
Canada	Bolivia	Tajikistan	Bahamas	Kenya	Syria		
Croatia	Brazil	Thailand	Bahrain	Kiribati	Tanzania		
Czech Republic	Brunei	Togo	Barbados	Kuwait	Timor-Leste		
Denmark	Cambodia	Tonga	Belize	Lebanon Trinidad & T			
Ecuador	Chile	Tunisia	Benin	Libya	Tuvalu		
Estonia	China	Turkey	Botswana	Madagascar	Uganda		
Finland	Cote d'Ivoire	Turkmenistan	Burkina Faso	Malawi	UAE		
France	Cyprus	USA*	Burundi	Maldives	USA ²		
Georgia	Fiji	Uruguay	Cabo Verde	Mali	Vanuatu		
Germany	Ghana	Uzbekistan	Cameroon	Marshall Islands	Venezuela		
Hungary	Greece	Vatican City	Central African Rep.	Mauritania	Yemen		
Iceland	India	Vietnam	Chad	Mauritius	Zambia		
Ireland	Italy		Colombia	Mexico	Zimbabwe		
Kosovo	Japan	1		Morocco			
Latvia	Kazakhstan	•		Mozambigue			
Liechtenstein	Kyrgyzstan			Namibia			
Lithuania	Laos			Nauru			
Luxembourg	Lesotho			Nicaragua			
Macedonia	Liberia			Niger			
Moldova	Malaysia			Oman			
Monaco	Malta			Palau			
Montenegro	Micronesia			Palestine			
Netherlands	Mongolia			Panama			
Norway	Myanmar			Papua			
Poland	Nepal			Qatar			
Romania	New Zealand			Rwanda			
Russia	Nigeria			Samoa			
Serbia	North Korea		Grenada	Sao Tome & Principe			
Slovakia	Pakistan		Guatemala	Saudi Arabia			
Slovenia	Paraguay		Guinea	Senegal			
Sweden	Peru		Guinea-Bissau	Sevchelles			
Switzerland			Guyana	Sierra Leone			
Ikraine Portugal		Haiti	Somalia				
United Kingdom	-		Honduras	South Sudan			

¹Northern Territory, Queensland*, Western Australia** (*Brisbane and **Perth Zone 2)

²Arizona, California, Florida, Nevada, New Mexico, Texas, Utah

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