TECHNICAL BULLETIN

1.0 Durability and Climatic Zones



Introduction

In general, the maximum durability for our products is ensured for vertical outdoor exposure only. We define a deviant application >=10° as a horizontal application. General information regarding the basis of evaluating the maximal durability can be found in our data sheets which are based only on the condition that vertical application in a moderate climate is undertaken.

Influencing Variables

In addition to horizontal/vertical application, also different climates can have a significant influence. Due to the additional influences like mechanical abrasion, chemical influences, altitude etc. it is not possible to transfer the maximum durability on each product. Consequently no warranty claims can be derived from the above information.

Applicability

The specification is valid for products suitable for vertical and horizontal application only. For products recommended for vertical use only, the vertical durability applies only to vertical uses and a horizontal durability is not applicable.

Special Locations	
High elevations	In mountain areas UV damage is increased over exposures at sea level. This is due to the air being thinner, and therefore damage from UV radiation increases significantly.
Congested urban or	Due to increased smog, pollutants, and particulates in the atmosphere in congested
industrial areas	urban and industrial areas horizontal applications have reduced durability expectations.
	The horizontal application traps the chemicals on the surface of the material, increasing
	the impact of UV exposure and reducing durability.

Durability in years								
Climatic Zone 1 (moderate)		Climatic Zone 2 (humid / warm)		Climatic Zone 3 (dry / hot)				
vertical	horizontal	vertical	horizontal	vertical	horizontal			
12	6	10	5	8	4			
11	5,5	9	4,5	7	3,5			
10	5	8	4	6	3			
9	4,5	7	3,5	5	2,5			
8	4	6	3	4	2			
7	3,5	5	2,5	3	1,5			
6	3	4	2	2	1			
5	2,5	3	1,5	1,5	0,75			
4	2	2	1	1	0,5			
3	1,5	1	0,5	0,5	0,25			
2	1	-	-	-	-			
1	0,5	-	-	-	-			

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Climatic Zones – Country	v Overview			
Climatic Zone 1		Climatic Zone 2		Climatic Zone 3
(moderate)	(tropical)			(subtropical)
Albania	Afghanistan	Japan	Togo	All sites over
Andorra	Angola	Kazakhstan	Trinidad & Tobago	1000 m above
Austria	Armenia	Kenya	Turkey	sea level
Belarus	Australia**	Korea (South)	Turkmenistan	Sea level
Belgium	Azerbaijan	Kyrgyzstan	Uganda	Algeria
Bosnia & Herzegovina	Bahamas	Laos	Uruguay	Aigeria
Bulgaria	Bangladesh	Lesotho	Uzbekistan	Australia** – Above
Croatia	Barbados	Liberia	Venezuela	a line 100 km north
Czech Republic	Belize	Madagascar	Vietnam	of Perth/Brisbane
Denmark	Benin	Malawi	Zambia	of Fertily Brisbane
Ecuador	Bhutan	Malaysia	Zimbabwe	Australia** – Desert
Estonia	Bolivia	Maldives	Ziiiibabwe	areas
Finland	Botswana	Mali	Arizona*	areas
France	Brazil	Malta	California*	Bahrain
	Burkina Faso	Mauritania		Chad
Georgia Germany	Burkina Faso Burundi	Mauritania	Florida (Southern)* Nevada*	
•	Cambodia	Micronesia	New Mexico*	Egypt Eritrea
Hungary Iceland	Cameroon		Texas*	
Ireland		Mozambique	Utah*	Ethiopia
	Cape Verde Caribbean Isles	Myanmar (Burma) Namibia	Otan.	Iraq Israel
Italy	Central African		*Eventions	Jordan
Kosovo		Nepal	*Exceptions	
Latvia	Rep.	New Zealand	classified in Zone 3	Kuwait
Liechtenstein	Chile	Nicaragua		Lebanon
Lithuania	China Colombia	Niger		Libya Mexico
Luxembourg Macedonia F.Y.R.		Nigeria Pakistan		
	Congo			Morocco
Moldova	Costa Rica	Panama		Oman
Monaco	Cote d'Ivoire	Papua New Guinea		Qatar
Montenegro	Cyprus Dominica	Paraguay Peru		Saudi Arabia
Netherlands, the				Somalia Tunisia
Norway	Dominican	Philippines		
Poland	Republic	Portugal		United Arab
Romania	East Timor	Puerto Rico		Emirates
Russia	El Salvador	Rwanda		Yemen
San Marino	Equatorial Guinea	Samoa		
Serbia	Fiji	San Marino		
Slovakia	Gabon	Sao Tome &		
Slovenia	Gambia	Principe		
Sweden	Ghana	Senegal		
Switzerland	Greece	Sierra Leone		
Ukraine	Grenada	Singapore		
United Kingdom	Guatemala	South Africa		
USA*	Guinea	Spain		
Vatican City	Guinea-Bissau	Sri Lanka		
*	Guyana	Suriname		
*Except desert areas	Haiti	Swaziland		
of the States	Honduras	Taiwan		
mentioned in Zone 2	India	Tajikistan		
	Indonesia	Tanzania		
	Jamaica	Thailand		

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Important Notice

Information on physical and chemical characteristics is based upon tests, practical knowledge and experience. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Because of the variety of uses and applications, the purchasers should independently determine, prior to use, the suitability of this material to their specific use and carefully consider the suitability and performance of the product. The purchaser shall assume all risks for any use and application of the material. All specifications and technical data are subject to change without prior notice, errors and omissions expected. All warranty matters are regulated by our general terms and conditions.

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