



Extended Product Overview

		HUMIDUR®									
		ME		E	FP			TC			
		ME	ME Brush	E	FP Single/FP Hydro	FP Plural	FP Brush	FP Brush Extreme	FP QR	TC	
Duties	Anti-corrosion	✓	✓	✓	✓	✓	✓	✓	✓		
	Anti-fouling										
	Topcoat									✓	
Substrate	Surface tolerant	✓	✓	✓	✓	✓	✓	✓	✓		
	Steel	✓	✓	✓	✓	✓	✓	✓	✓	Only esthetic purposes	
	Other metals	✓	✓	✓	✓	✓	✓	✓	✓	Only esthetic purposes	
	Concrete	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Humidur coatings	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Other coatings	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Glass Reinforced Plastic (GRP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Fibre Reinforced Plastic (FRP)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Composition	100% solids / 0% VOC	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Solvent-free	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	2K-polyamine epoxy	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Application	Brush / roller / spatula	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Dispensing Gun									✓	
	Single component spray (heated hoses)	✓			✓					✓	
	Plural component spray (heated hoses)	✓		✓	✓	✓				✓	
Physical Properties	Colour	Any RAL - 25 standard shades	Any RAL - 25 standard shades	Any RAL 25 standard shades	Any RAL - 25 standard shades	Any RAL - 25 standard shades	Any RAL - 25 standard shades	Refer to TDS	Refer to TDS	Any RAL - 25 standard shades	
	Density at 23°C	± 1.36 g/cm³	± 1.27 g/cm³	± 1.38 g/cm³	± 1.36 g/cm³	± 1.39 g/cm³	± 1.13 g/cm³	± 1.15 g/cm³	± 1.21 g/cm³	± 1.23 g/cm³	
	Viscosity	6.0 ± 1 Pas	4.5 ± 1 Pas	10.5 ± 1 Pas	25 ± 1 Pas	45 ± 1 Pas	8.8 ± 1 Pas	N/A	N/A	3 ± 1 Pas	
	Adhesion value	> 8 MPa	> 8 MPa	> 8 MPa	> 8 MPa	> 8 MPa	> 8 MPa	> 8 MPa	> 5 MPa	> 5 MPa	
	Hardness (Shore D)	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 74	> 80	
	Flash point	> 100°C	> 100°C	> 120°C	> 100°C	> 100°C	> 100°C	> 100°C	> 100°C	> 90°C	
	Touch dry at 20°C	4 hours	4 hours	2 hours	3 hours	3 hours	3 hours	4 hours	5 hours	4 hours	
	Full cure at 20°C	48 hours	48 hours	12 hours	24 hours	24 hours	24 hours	24 hours	36 hours	3 days	
	One coat system	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Only esthetic purposes	
	Standard packaging	22 kg	5 kg	22 kg	18 kg	22 kg	5 kg	5 kg	180 ml	4 kg	
Technical Properties	Pot life (at 23°C)	45 min	45 min	10 min	25 min	25 min	25 min	25 min	N/A	2 hours	
	Shelf life at 25°C	12 months	12 months	24 months	24 months	24 months	24 months	24 months	24 months	12 months	
	Mixing ratio by weight	4.4:1	3.7:1	4.03:1	5.0:1	4.0:1	3.7:1	2.6:1	2.63:1	7.6:1	
	Mixing ratio by volume	3.2:1	2.9:1	2.9:1	3.8:1	2.9:1	3.475:1	2.4:1	2:1	5.9:1	
	Film thickness min./ max.	300 µm / 1000µm	200 µm / 300 µm	300 µm / 2000 µm	400 µm / 800 µm	400 µm / 2000 µm	200 µm / 400 µm	200 µm / 200 µm	200 µm / 400 µm	60 µm / 100 µm	
	Covering capacity (min. thickness)	0.41 kg/m²	0.25 kg/m²	0.42 kg/m²	0.54 kg/m²	0.55 kg/m²	0.23 kg/m²	0.23 kg/m²	0.48 kg/m²	0.074 kg/m²	
	Min. overcoating time	wet-on-wet	wet-on-wet	wet-on-wet	wet-on-wet	wet-on-wet	wet-on-wet	wet-on-wet	wet-on-wet	4 hours	
	Max. overcoating time	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	unlimited	Roughen the surface	48 hours	
	Cleaning of material	HumiClean	HumiClean	HumiClean	HumiClean	HumiClean	HumiClean	HumiClean	HumiClean	HumiClean	
	Min. Surface Preparation	Cleanliness	St 2-3 - ISO 8501	St 2-3 - ISO 8501	St 2-3 - ISO 8501	St 2-3 - ISO 8501	St 2-3 - ISO 8501	St 2-3 - ISO 8501	St 2-3 - ISO 8502	St 2-3 - ISO 8503	N/A
Roughness		Original profile	Original profile	Original profile	Original profile	Original profile	Original profile	Original profile	Original profile	N/A	
Methods		Grind disk	Grind disk	Grind disk	Grind disk	Grind disk	Grind disk	Grind disk	Grind disk	Grind disk	N/A
		Wire brush	Wire brush	Wire brush	Wire brush	Wire brush	Wire brush	Wire brush	Wire brush	Wire brush	N/A
		Needle gun	Needle gun	Needle gun	Needle gun	Needle gun	Needle gun	Needle gun	Needle gun	Needle gun	N/A
Bristle Blaster		Bristle Blaster	Bristle Blaster	Bristle Blaster	Bristle Blaster	Bristle Blaster	Bristle Blaster	Bristle Blaster	Bristle Blaster	N/A	
Expected lifetime		15 years	15 years	15 years	15 years	15 years	15 years	15 years	15 years	N/A	
Warranty	on request	on request	on request	on request	on request	on request	on request	on request	N/A		
Optimal Surface Preparation	Cleanliness	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Sa 2½ - ISO 8501	Solvent wash SSPC-SP1 Sweep blasting SSPC-SP7 / Sa 1 ISO 8501	
	Roughness	> 60 µm	> 60 µm	> 60 µm	> 60 µm	> 60 µm	> 60 µm	> 60 µm	> 60 µm	120-180 grade for coating	
		2/3 ISO 8501	2/3 ISO 8501	2/3 ISO 8501	2/3 ISO 8501	2/3 ISO 8501	2/3 ISO 8501	2/3 ISO 8501	2/3 ISO 8501	60-120 grade for concrete	
	Methods	Concrete: CSP 3	Concrete: CSP 3	Concrete: CSP 3	Concrete: CSP 3	Concrete: CSP 3	Concrete: CSP 3	Concrete: CSP 3	Concrete: CSP 3		
	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Abrasive Blasting	Orbital electric sander or abrasive paper	
Expected lifetime	> 30 years	> 30 years	> 30 years	> 30 years	> 30 years	> 30 years	> 30 years	> 30 years	> 30 years	10 years	
Warranty	on request	on request	on request	on request	on request	on request	on request	on request	on request	on request	
Application Conditions	Primer needed	No	No	No	No	No	No	No	No	Yes	
	Temperature before mixing	18°C - 25°C	18°C - 25°C	18°C - 25°C	35°C - 40°C	50°C - 60°C	20°C - 25°C	18°C - 25°C	15°C - 25°C	20°C-25°C	
	Application temperature of mixture	25°C ± 5°C	25°C ± 5°C	30°C ± 5°C	35°C ± 5°C	55°C ± 5°C	25°C ± 5°C	18°C - 25°C	15°C - 25°C	25°C ± 5°C	
	Min. surface temperature*	> DPT + 3°C*	> DPT + 3°C*	> DPT + 3°C*	> DPT + 3°C*	> DPT + 3°C*	> DPT + 3°C*	> DPT + 3°C*	> DPT + 3°C*	> 0°C and > DPT + 3°C	
	Max. surface temperature	50°C	50°C	50°C	50°C	50°C	50°C	50°C	50°C	50°C	
	Humidity of surface	no condensation	no condensation	no condensation	no condensation	no condensation	no condensation	no condensation	no condensation	no condensation	
	R.H.	< 95%	< 95%	< 95%	< 95%	< 95%	< 95%	< 95%	< 95%	< 95%	
	Curing under water possible	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	

*These criteria are valid to achieve the most durable protection. If a reduced coating lifetime is desired, application can continue outside this window. The existing warranties do not apply in these conditions. Please contact Acotec nv directly for more information on the expected lifetime in these conditions.