

# Kulorthene Abcite X45

Kulorthene Abcite X45

**Product Code:** 923 Line

## Description

**Abcite® X45** is a tough chip-resistant thermoplastic powder coating that provides excellent corrosion and UV protection without the need for a primer. It is designed for electrostatic spraying applications. Its high fluidity and low melting point enable energy savings as it can be applied at low temperature.

**Abcite® X45** is based on an ethylene acid copolymer.

## Uses

**Abcite® X45** is particularly suitable for outdoor, light poles, signs posts, street and garden furniture, balustrades, railings and trellis of stairways, fencing panels, supports for climbing plants, bike racks, water transportation and glass scattering protection.

Powder properties	Unit	Standard	Equivalent Standard (ASTM)	Value
Maximum particle Size	µm	Alpine sieving		150
Free Flow	s	ISO 6186	D1895 (test 89)	N/A
Bulk density	g/cm <sup>3</sup>	ISO 60	D1895 (test 89)	0.33
<b>Coating properties</b>				
Specific Gravity	g/cm <sup>3</sup>	ISO 1183	D792	0.94
Max working temperature (continuous/peak)	°C		DuPont test	75 / 85
Abrasion Resistance (Taber)*	mg (loss)	ISO 9352	D4060	21
Salt Spray Resistance			B117-73	<2 (2000 h)
Subsurface corrosion of scribed panel	mm	ISO 9227	(5% common salt in water at 35°C)	<5 (3000 h)
UV stabilisation (2000 hr of Weathering resistance)		ISO 4892-3	G154 (supp G53)	YES
Burning Behaviour (coated sample)			UL94	V0
Flammability	mm/min		D635	15.8
Impact resistance		ISO 6272	D1822	Excellent
Edge coverage		DuPont test		Excellent
<b>Thermal Properties / Mechanical / Electrical</b>				
Melting Point	°C	ISO 3146 C	D3418	90
Vicat Softening Point**	°C	ISO 306	D1525	62
Melt Flow Index (190°C/2.16 kg)	g/10 min	ISO 1133	ASTM D 1238	48
Adhesion (peeling test)	N/cm	ISO 4624	ASTM D4541	Cohesive failure
Hardness (max)	Shore D	ISO 868	D2240	57
Impact Strength (23°C/-40°C)	kJ/m <sup>2</sup>	ISO 6272	D1822	287 / 315
Elongation at Break E <sub>B</sub> **	%	ISO 527	D638	540
Tensile Strength**	MPa	ISO 527	D638	21
Brittleness temperature	°C	ISO 974	D 746	-60
Thermal conductivity**	W/mK		E1530	0.24
Dielectric strength E <sub>d</sub> **	KV/mm		D149	38
Dielectric breakdown	kV	IEC 243-1	D149-97	60
Volumetric resistivity	Ohm/cm	DuPont test	IEC 93 / D257	1.7 10 <sup>17</sup>

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Chemical resistance (20°C / 60°C)	Unit	Standard	Value
Acids	R: resistant		R / R
Alkalis	L: limited	ISO 2812	R / L
Solvent	U: Not	ISO 4628	L / NA
Gas	resistant		L / U
<b>Approval</b>			
Food contact***		Compliant with EU directives	

NA = Not Applicable

## Health and Safety

The MSDS is an integral part of using this product as it contains information on the potential health effect of exposure, personal protective equipment needed and other relevant SH&E information.

For detailed information, refer to product label and the current Chemical Data Sheet (No. 13960128) available through Sales and Customer Service Offices.

Phone: Australia:-	13 24 99	New Zealand:-	09 441 8244.
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## Transport and Storage

<b>Sizes:</b>	10 kg	<b>Flashpoint:</b>	N/A
<b>Weight:</b>	10 kg	<b>UN:</b>	N/A
<b>Dangerous Goods Class:</b>	N/A	<b>Package Group:</b>	N/A
<b>Shipment Name:</b>	Not dangerous goods. No special transport requirements.		

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