



Zenolite®
HARD COATED

THE
POWER TO
INSPIRE

ZENOLIT Hard Coat

THE NEXT-GENERATION HIGH
GLOSS PANEL, HARD COATED FOR
EXTRA DURABILITY





Zenolite® is a next-generation high gloss wall panel. Vivid, lightweight and stronger than glass, it's a sophisticated solution that improves any room. Designed and manufactured in Australia, it's suitable for both residential and commercial applications.

Zenolite HC is a Hard Coated version of Zenolite. It's designed to accommodate more demanding environments, including shower walls, high-traffic areas, and public amenities. Invigorate, inspire and surprise with Zenolite.

HIGH PERFORMANCE

Zenolite HC is made from two layers of acrylic, co-extruded into a single sheet. A vibrant colour layer is capped with a clear top layer, that is then hard coated to enhance its resistance to scratching and chemicals. The result is a panel of incredible depth, gloss, clarity and durability.

- High scratch and wear resistance – the coated surface has a Pencil Test hardness of 6H.
- Zenolite HC has a high resistance to heat, thermal shock, chemicals and stains.
- 10 year indoor UV warranty.

RAPID INSTALLATION

Easy to handle, Zenolite HC can be installed rapidly over new or existing wall finishes.

- Convenient panel size that can be fabricated on-site with woodworking tools, and installs using double-sided tape and neutral cure silicone.
- The colour layer is acrylic, not paint, so it's less susceptible to damage and scratches.
- For bathrooms, Zenolite HC requires no grouting and less joints – a typical install takes about a third of the time of ceramic tiles.

EASY TO MAINTAIN

Zenolite HC is easy to clean using just warm water and a soft microfibre cloth or chamois.

- The smooth hard coat makes the Zenolite HC surface impervious and ultra-hygienic – it will not promote mould, soap or calcium build up.

PANEL SIZE

- Zenolite HC panels are 2440 x 1220 x 4mm. Other sizes and colours available on application, and subject to minimum order quantities.

ZENOLITE HC

Glacier

Arctic

Tusk

Malt

Rouge

Macchiato

Titan

Carbon

GRAFFITI RESISTANCE

Zenolite HC's hard coated surface is highly resistant to permanent damage from such mediums as permanent markers, spray paint and water or oil based paints.

Most can be wiped off easily using a dry microfibre cloth. In more severe cases, kerosene can be used for quick and efficient removal.

FURTHER INFORMATION

More information, including Installation Instructions and the Zenolite Technical Guide, can be found at allplastics.com.au

ZENOLITE HC SPECIFICATIONS	Test Method	Result
Water Absorption	ASTM D-570	<0.5%
Gloss	AS/NZS 1580.602	>90%
Abrasion (Taber, 10 rots. CS10F 500g)	ASTM D-1044	<10% Gloss
Pencil Hardness	ASTM D-3363	>6H
Thermal Expansion and Contraction		0.7mm/1000mm/10°C
HDT, 264psi, 1.82MPa	ASTM D-648	96°C
CTE, -30°C to 30°C	ASTM D-696	7 x 10 ⁻⁵ mm/(mm.°C)
Continuous Service Temperature		77°C
Fire Behaviour – Australia BCA 2006	AS/NZS 13837:1998	Rating 4

For vertical indoor surfaces only. Should not be used in contact with direct heat source above 70°C. Chemical Resistance: The following chemicals had no effect: Spray n' Wipe®, Windex®, Acetone, Glass Cleaner, Acetic Acid 5%, Citric Acid, Kerosene, Mineral Turpentine, Isopropyl Alcohol. Not suitable for use with high alkali cleaners.

EGR

allplastics.com.au



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ALSO AVAILABLE:



Zenolite is available in a wide range of colours, and is suitable for a multitude of applications – from kitchen splashbacks and feature walls, to entire hotel foyers. It can also bend to form gentle curves.



Zenolite LE is the special Luxury Edition of Zenolite. Incorporating a range of designer patterns, including metallics and woodgrains, it combines the beauty of exotic materials with the practicality of Zenolite.



ZENOLITE® HC PANEL PROPERTIES

ZENOLITE® HC PANEL PROPERTIES	Test Method	Result
GENERAL PROPERTIES		
Specific Gravity	ASTM D-792	1.19
Water Absorption	ASTM D-570	<0.5%
Gloss	AS/NZS 1580.602	>80%

MECHANICAL PROPERTIES		
Tensile Strength, Max.	ASTM D-638	70 MPa (10,000 psi)
Elongation at Break	ASTM D-638	4%
Tensile Modulus	ASTM D-638	3,000 MPa (435,000 psi)
Flexural Strength	ASTM D-790	100 MPa (15,000 psi)
Flexural Modulus	ASTM D-790	3,000 MPa (435,000 psi)
Izod Impact Strength, Milled Notch	ASTM D-256	15 J/m (0.28 ft-lb/in)
Abrasion (Taber, 10 rots. CS10F 500g)	ASTM D-1044	<10% Gloss
Pencil Hardness	ASTM D-3363	6H

THERMAL PROPERTIES		
HDT, 264 psi, 1.82 MPa	ASTM D-648	96°C (203°F)
CTE, -30°C to 30°C	ASTM D-696	7 x 10 ⁻⁵ mm/(mm.°C) (4 x 10 ⁻⁵ in/(in.°F))
Continuous Service Temperature		77°C (170°F)
Max temperature, Short Term		95°C (202°F)
Degradation Temperature		>275°C (>530°F)

FIRE BEHAVIOUR		
Flame Spread Index	ASTM E84	130*
Australia BCA 2006	AS/NZS 13837:1998	Rating 4
U.K.	BS476	Rating 4
U.S.A.	UL94	HB
Europe	EN 13501	Class E

ZENOLITE® HC CHEMICAL RESISTANCE

Kerosene	No Effect	Shampoo – Pantene®	No Effect
Mineral Turpentine	No Effect	Mouthwash – Listerine®	No Effect
Hot Sodium Hydroxide Solution	No Effect	Toothpaste – Macleans®	No Effect
General Cleaner – Easy-Off BAM®	No Effect	10% Citric Acid	No Effect
General Cleaner – Spray n' Wipe®	No Effect	Hot Tomato Sauce	No Effect
General Cleaner – Cloudy Ammonia	No Effect	Lemon Juice	No Effect
Bleach – White King®	No Effect	Hot Coffee	No Effect
Bleach – Domestos®	No Effect	Vinegar	No Effect
Glass Cleaner – Windex®	No Effect	Cleaning Cream – Jif	No Effect
Fragrance Spray – Air Wick®	No Effect	Isopropyl Alcohol	No Effect
Shower Gel – Health Basics®	No Effect	Acetone	Mild Staining

* As tested by Bodycote – Report 08-002-719.

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