

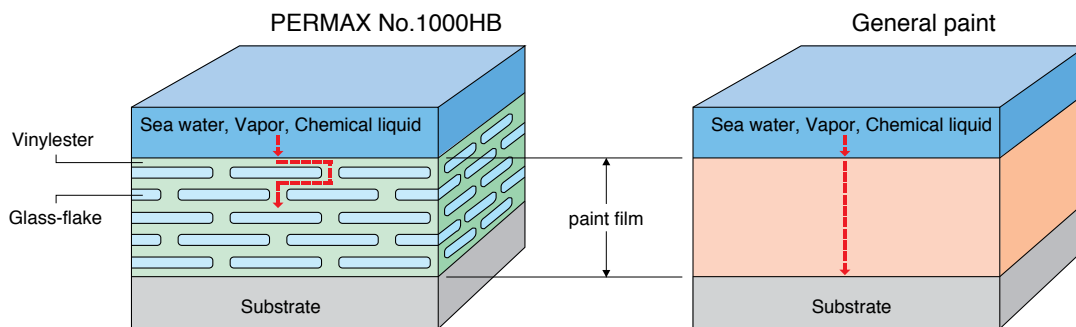
Vinyl Ester Glassflake Coating

PERMAX No.1000HB

PERMAX No.1000HB is a glass flake paint, based on vinyl ester resin. It has excellent physical properties such as adhesion, toughness, abrasion resistance and chemical resistance. It is suitable for protective coating of ice going vessels and offshore structures.

Incredible anti-corrosive property for a long term

Glass-flake prevent substances such as seawater, water vapor or chemical liquid from directly penetrating into a steel surface. It takes much longer time compared to other paints without glass-flake.



Excellent adhesion property and impact resistance

By the addition of glass flake, the difference in thermal expansion coefficient between the coating and substrate become small, and curing shrinkage of the coating film will also become small.

The internal stress in the interface between the substrate is reduced, peeling and cracking is suppressed, and it shows the excellent adhesion property and impact resistance.

Excellent abrasion resistance

The synergy of glass flakes and vinyl ester resin, coating film become hard and adequate toughness, and it shows excellent abrasion resistance.

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Offshore Structure



Vessels



Ice going Vessels

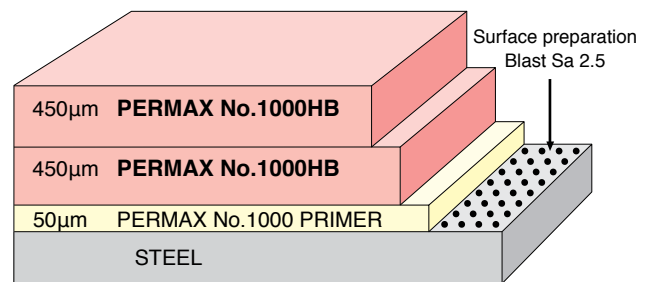


Certificate

Recognized abrasion resistant Ice coating. (LR)



Typical System



Physical Properties

Test Items	Unit	PERMAX No.1000HB	Test Methods
Tensile Strength	MPa	62.8	ASTM D 638
Elongation	%	1.5	ASTM D 638
Flexural Strength	MPa	113	ASTM D 790
Compressive Strength	MPa	116.8	ASTM D 695
Impact Resistance	500g×1/2inch×50cm	No defect	ISO 6272
Coefficient of Drying Contraction	%	0.2	JIS K 6911
Pencil Hardness	-	4H	ISO/ DIS 15184
Abrasion Resistance	mg loss	110	ISO 7784-2
Linear Coefficient of Thermal Expansion	1/°C	2.3×10^{-5}	ASTM D 696
Adhesion Strength	MPa	24.5	ISO4587
Moisture Vapour Transmission Rate	$g/m^2 \cdot 24hr$	0.05	JIS Z 0208

CMP CHUGOKU MARINE PAINTS, LTD.

HEADQUARTERS

Tokyo Club Building, 2-6, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo, 100-0013, Japan TEL : 81-(3)3506-3971 FAX : 81-(3)5511-8542

Website: <http://www.cmp.co.jp/global>