



A ceramic resin and special anti-corrosion pigment based self curing prefabrication coating with outstanding white-rust resistance property.

It promotes workability to 2nd surface preparation by very good workability and resistance to heat and rust. Welds made over Cerany IZ1990, coated steel are equal in every respect to welds joining uncoated steel prior to fabrication. It protects the substrate from corrosion with cathodic protection mechanism in normal and marine environments. Coated steel can be welded as quickly and easily as bare steel at production line speeds, with no loss in strength or consistency of the weld. It has good flexibility, excellent weather resistance and good abrasion resistance. Temperature resistance for continuous service up to 600 °C/1112 °F, for non-continuous service up to 800 °C/1472 °F.

Approved as a Fire Retardant Coating by Det Norske Veritas & Germanischer Lloyd (DNV-GL).

Recommended use	As a shop primer in shipyards, tank and structural steel fabricating shops and steel mills. It can be also applied to insulation areas of the engine room of a vessel. It has many cost saving advantages over conventional shop primers. It is not recommended for exposure to acid, alkalis.
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Physical Properties	
Finish and Color	Flat. Grey(1184)
Specific gravity	Approx. 1.5 for Mixture of Paste and Liquid
Solids by volume	Approx. 34 %
Spreading rate (Theoretical)	17 m ² /L in 20 μm dry film thickness on a smooth surface.
Flash point	Liquid (IZ1990LIQUID) : 13 °C/55.4 °F (Closed cup) Paste (IZ1990PASTE) : 4 °C/39 °F (Closed cup)

Application details	
Surface preparation	Remove any oil and grease from the surface to be coated with clean rags soaked in Thinner No. 0608. * Steel : Blast cleaning to Sa2.5, Power tool cleaning to St3. * For insulation part of the dry space ; Blast cleaning to Sa2.5 or Power tool cleaning to St3, St2, etc. on the shopprimed surface.
Method of application	Spray : Use adequate air volume for correct operation. Hold gun 20 ~ 25 cm from the surface and at a right angle to the surface. Use a 50 % overlap with each pass of the gun on irregular surfaces, coat the edges first, making an extra pass later. * For conventional spray ; Use agitated pot and maximum 15 m hose. Keep pot at same elevation as gun. If spraying stops for more than 15 minutes, blow material from hose back into pot. * For airless spray application ; Nozzle orifice : 381 μm ~ 533 μm (0.015" ~ 0.021") Output pressure : 9.6 MPa ~ 12.4 MPa

	Fan : 40 ° ~ 90 ° (Airless spray data are indicative and subject to adjustment)			
Mixing	Liquid (IZ1990LIQUID) : Paste (IZ1990PASTE) = 7.6 L : 7.4 L(by volume) Mix separately, then combine and mix the mixture thoroughly prior to application. Use the mixture after filtering with 50 mesh screen.			
Thinning	Below 25 °C /77 °F : 0608 Above 25 °C /77 °F or windy conditions : 0614			
Application conditions		Surface Temp.		Relative Humidity
	Normal	4 °C ~ 43 °C		50% ~ 90%
	Min.	-18 °C		10 %
	Max.	93 °C		95 %
*Special thinning and application tchniques may be required above or blow normal conditions.				
Film thickness	15 ~ 30 μm dry			
Drying time	Substrate temperature	5 °C /41 °F	20 °C /68 °F	30 °C /86 °F
	Set to touch	10 min	4 min	3 min
	Dry through	25 h	10 h	5 h
* The actual drying time is subject to the film thickness, ventilation, humidity etc., and drying time under other temperature conditions should be checked and informed by KCC.				
Pot life	24 h at 20 °C /68 °F			
Recoating interval	At 25 °C /77 °F, Minimum : 5 h Maximum : Free Before overcoating, remove any oil, salt, chalking material and any other contaminants on aged coating film completely by proper cleaning method such as solvent cleaning and/or fresh water washing.			
Heat resistance temperature	Continuous : 600 °C /1,112 °F (Non-immersion service) Non-continuous : 800 °C /1,472 °F (Non-immersion service)			
Storage and package				
Shelf life	Liquid (IZ1990LIQUID) : 12 months Paste (IZ1990PASTE) : 12 months			
Storage	Keep away from heat and ignition sources and store in a cool well-ventilated place. Do not store at ambient temperature below 5 °C or obove 40 °C .			
Packing Unit	15 L (IZ1990LIQUID : 7.6 L, IZ1990PASTE : 7.4 L)			
Remarks				
Note	Cerany IZ1990 will skin if left in opened cans. Skin has no effect on performance, but should be removed before using. Clean tools with suitable thinner immediately after use. Remove hardened material with 10 % caustic solution. Keep away from sparks and open flame.			
1'st issue	2016-06-01			
Revision	2016-11-01			

able to guarantee without the confirmation of the purpose of using the product from us in writing. We reserve the right to change the data without notice and you should check that this data sheet is current prior to using the product.

