Interzinc® 697

Inorganic Zinc Silicate

PRODUCT DESCRIPTION

A two component, low VOC, water-borne alkali metallic zinc silicate primer.

INTENDED USES

As a high performance corrosion resistant primer for use on correctly prepared steel substrates in new construction situations.

PRACTICAL INFORMATION FOR INTERZINC 697

Colour	Grey
Gloss Level	Matt
Volume Solids	60%
Typical Thickness	75 microns (3 mils) dry equivalent to 125 microns (5 mils) wet
Theoretical Coverage	8 m²/litre at 75 microns d.f.t and stated volume solids 321 sq.ft/US gallon at 3 mils d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Air Spray, Brush, Roller

Drying Time

			Overcoating Interval with recommended topcoats	
Temperature	**Touch Dry**	**Hard Dry**	*Minimum*	*Maximum*
5°C (41°F)	45 minutes	4 hours	Not applicable	Not applicable
15°C (59°F)	30 minutes	90 minutes	Not applicable	Not applicable
25°C (77°F)	25 minutes	45 minutes	Not applicable	Not applicable
40°C (104°F)	15 minutes	30 minutes	Not applicable	Not applicable

Drying times are dependent upon ambient conditions. The figures quoted above have been determined at the quoted temperature and 60% relative humidity

REGULATORY DATA

Flash Point (Typical)	Part A >100°C (212°F); Part B Not applicable; Mixed >100°C (212°F)	
Product Weight	3.62 kg/l (30.2 lb/gal)	
VOC	0 g/kg	EU Solvent Emissions Directive (Council Directive 2010/75/EU)

Coating hazard marker GB 30981.2-W-Pb ≤1000-NC Qualified for GB 30981.2-2025

See Product Characteristics section for further details

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2019.

Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Strict adherence to all cleanliness standards is essential for application of water based coatings.

Abrasive Blast Cleaning

Abrasive grit blast clean to Sa2½ (ISO 8501-1:2007) or SSPC-SP6. If oxidation has occurred between blasting and application of Interzinc 697, the surface should be reblasted to the specified visual standard.

Surface profile should be minimum Medium (G) according to ISO 8503-1

Surface defects revealed by the blast cleaning process should be ground, filled, or treated in the appropriate manner.

APPLICATION

Mixing	Interzinc 697 is supplied in two parts, a liquid Binder base component (Part A) and a Powder component (Part B). The Powder (Part B) should be slowly added to the liquid Binder (Part A) whilst stirring with a mechanical agitator. DO NOT ADD LIQUID TO POWDER. Material should be filtered prior to application and should be constantly agitated in the pot during spraying. Once the unit has been mixed it should be used within the working pot life specified.	
Mix Ratio	0.25 part(s) : 1 part(s) by weight	
Working Pot Life	20°C (68°F) 8 hours	
Airless Spray	Not suitable	
Air Spray (Conventional)	Recommended	Use suitable proprietary equipment
Brush	Suitable - small areas only	Typically 50-75 microns (2.0-3.0 mils) can be achieved
Roller	Suitable - small areas only	Typically 50-75 microns (2.0-3.0 mils) can be achieved
Thinner	DO NOT THIN	
Cleaner	Clean potable water or International GTA991	
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with clean water followed by International GTA991. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.	
Clean Up	Clean all equipment immediately after use with clean water followed by International GTA991. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature and elapsed time, including any delays. All surplus material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

PRODUCT CHARACTERISTICS

Apply by airspray. Thoroughly flush equipment with International GTA991 thinner, or alcohol, followed by water prior to use. To obtain maximum edge protection and film build, airspray application is recommended. Application by other methods, e.g. brush or roller, may require more than one coat.

With all water based coatings careful control of application conditions is required to ensure good long term performance. The following basic parameters must be adhered to:

Interzinc 697 must be protected from freezing at all times during storage.

The minimum steel temperature for application must be above 10°C (50°F), and be at least 3°C (5° F) above dew point.

Ideally, the relative humidity during application and cure should be kept between 50 and 60%, otherwise drying and overcoating times will be severely extended.

Good airflow is essential around the object being painted [minimum air speed 0.1m/sec (4inches/sec)].

Minor areas which are difficult to ventilate should be brush applied to prevent over-application.

Application below the minimum film forming temperature (M.F.F.T.) of the coating and/or poor ventilation will result in poor film coalescence and will result in a powdery cracked film which will require removal and re-application.

Maximum continuous dry temperature resistance for Interzinc 697 is 400°C (752°F).

Cure is a function of temperature, humidity and airflow. Normally films at 75 microns (3 mils) dry film thickness will exhibit full cure in 5 days at 20°C (68°F) and 7 days at 10°C (50°F).

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

Interzinc 697 is only recommended for application to correctly prepared steel substrate.

Interzinc 697 is not normally overcoated.

ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Safety Data Sheet and the container(s), and should not be used without reference to the Safety Data Sheet (SDS).

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult AkzoNobel for further advice.

PACK SIZE

Unit Size	Part A		Part B	
	Weight	Pack	Weight	Pack
5 kg	1 kg	1 litre	4 kg	4 litre

For availability of other pack sizes, contact AkzoNobel.

SHIPPING WEIGHT (TYPICAL)

Unit Size	Part A	Part B
5 kg	1.05 kg	4.36 kg

U.N. Shipping No. Non Hazardous

STORAGE

Shelf Life	6 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

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