Chockfast®



AST MS-7CZ RUST INHIBITIVE PRIMER – THE STANDARD PRIMER FOR PRESERVING STEEL

TECHNICAL DATA SHEET #1035 VERSION: D

PRODUCT DESCRIPTION

AST MS-7CZ RUST INHIBITIVE PRIMER is a lead and chromate free, rust inhibitive, two-component, epoxy primer specifically designed for use in conjunction with ITW Performance Polymers' coatings and precisions epoxy grouts and chocks that is applied to metal substrates. It meets USDA standards for maintenance protective coatings not in direct contact with food in federally inspected meat and poultry plants.

USE & BENEFITS

AST MS-7CZ RUST INHIBITIVE PRIMER is recommended for use as a metal primer in severe industrial and chemical environments. It possesses excellent adhesion to properly prepared iron and steel surfaces, providing rust resistance to ferrous substrates, both on initial application and in the event of damage to the topcoat. It can be used under many epoxy, urethane, vinyl, chlorinated rubber and coal tar/epoxy finish coats.

The 7CZ Primer contains a new, state-of-the-art compound that was created by combining zinc and phosphate at the molecular level. Zinc complexed with phosphate becomes a non-metallic compound that is completely different from regular, inorganic zinc. Inorganic zinc primers are made from ground metallic zinc powder mixed with a very basic inorganic polymeric liquid. Rust Inhibitive 7CZ Primer, on the other hand, is made up of a very high quality, 2-component, polyamide epoxy and a small amount of zinc complexed with phosphate. Rather than metallic zinc, the 7CZ Primer has very good anticorrosion properties and promotes adhesion of steel to epoxy grout.

SURFACE PREPARATION

Steel: Surfaces must be dry, clean, and free of all previous coatings, rust, and surface contamination. Minimum surface preparation is abrasive blast to Commercial Grade SP-6. Blasted surfaces must be coated within 8 hours. Prior to blast cleaning, remove all deposits of oil or grease using Solvent Clean method SP-1.

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Previously Painted Surfaces: If the paint is peeling or degrading in any way, it should be completely removed by sanding, blasting, or stripping. If previous paint coating is completely intact, the surface may be cleaned with a strong detergent or solvent and scuff sanded to remove the gloss. A spot test should be made by applying a small amount of coating over old paint. The old finish may wrinkle or lift within 60 minutes. If it does not, wait 5 days and test for adhesion. Do this by cutting an "X" into the coating, place tape firmly over the cut, then pull the tape with a hard, fast pull. If the old finish fails, it must be removed.

STORAGE RECOMMENDATIONS

All product components should be stored in a dry, shaded area in original unopened containers and within a temperature range of 65°- 95°F (16° - 35°C). For additional information, please refer to Technical Guide 1024.

REFERENCE

For any additional recommendations or applications beyond the typical ones listed in this document, please contact your local representative of our Worldwide Distributor Network or ITW Performance Polymers for further support.



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APPLICATION INSTRUCTIONS

Please refer to the appropriate safety data sheet (SDS) prior to using this product.

- Applications should only take place when material, surface, and ambient temperature are all above 55°F (13°C) and at least 5°F (3°C) above the dew point.
 Application not recommended with surface temperatures over 120°F (49°C).
- AST MS-7CZ RUST INHIBITIVE PRIMER should be applied to a minimum 2-3 mils (50-75 microns) dry film thickness above the average surface profile and a maximum of 6 mils (152 microns) DFT.
- AST MS-7CZ RUST INHIBITIVE PRIMER can be applied by spray, roller, or brush. Spraying should be done perpendicular to the surface to ensure complete coverage. Each pass of the spray gun should overlap the previous pass by 50%. Weld seams and edges should be stripe coated prior to complete prime coat.
- 4. AST MS-7CZ RUST INHIBITIVE PRIMER is a two-part

- compound. Mechanically mix the base portion until homogenous. Pour the hardener into the container of base material and mechanically stir thoroughly until uniform (approximately three minutes). NO THINNERS MAY BE ADDED. Make sure that all sediment is stirred up off the bottom of the can.
- AST MS-7CZ RUST INHIBITIVE PRIMER does not require the usual induction period and may be applied immediately after mixing. Working pot life is 4 hours at 70°F
- 6. The primed surface should be protected from contamination.
- 7. If the topcoat or grout application is delayed so that the surface becomes contaminated, clean the area again.
- 8. Clean tools and spray equipment immediately after completing installation using an epoxy solvent compliant with state and federal V.O.C. regulations.

Note: AST MS-7CZ RUST INHIBITIVE PRIMER is not rated or recommended for water immersion service

PRODUCT INFORMATION

UNIT COVERAGE	250 sq. ft./gal. (4 mils DFT / 6.5 mils WFT)			
TYPICAL APPLICATION TEMPERATURES	55°F minimum to 120°F maximum (13°C minimum to 48°C maximum) & 5°F (3°C) above dew point			
INITIAL CURE TIME (APPROXIMATE, BASED ON CONTACT SURFACE TEMPERATURES)	Tack Free:		2 hours @ 70°F (21°C)	
	To Recoat:		t: 12 hours @ 70°F (21°C)	
RELATIVE HUMIDITY	85% MAXIMUM			
VOLUME SOLIDS	72%			
POT LIFE (APPROXIMATE)	70°F (21°C): 4 hours.			
PACKAGING PER UNIT	RESIN (A):	0.77	gal (2.9 L) in a 1 gal can	
	HARDENER (B):	0.23 gal (0.87 L) in a quart can		
COMPONENT WEIGHTS	RESIN (A):	10.8 l	bs (4.9 kg)	
	HARDENER (B):	1.9 lb	s (0.86 kg)	
UNIT SHIPPING WEIGHT	13 lbs. (5.9 kg)/kit			
COLOR	Gray, Buff or Light Gray			
CLEAN UP	IMPAX IXT-59, S-426, S-31, Solvents, Isopropyl Alcohol, MAK Solvent			
SHELF LIFE	1 year in dry storage			

General: Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support. Warranty: ITW Performance Polymers, a division of Illinois Tool Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment. Warranty Claims: If any product fails to meet the above, ITW Performance Polymers will, at its option, either replace the product or refund the purchase price. ITW Performance Polymers will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered. Disclaimer: ITW Performance Polymers makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose. Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Performance Polymers' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Performance Polymers' election. Under no circumstances shall ITW Performance Polymers be liable for any indirect, incidental or consequential damages. Modification of Warranty: No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Performance Polymers. No term of any purchase order shall serve to modify any provision of this document. Mediation and Arbitration: If any dispute arises relating to products or product warranties, either the purchaser or ITW Performance Polymers may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.

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