

# **STARFLEX PR/HS 336**

PRODUCT DESCRIPTION:		Higl It ha	High-solids two-component polyamide epoxy primer with anti-corrosion zinc phosphate-based pigments. It has excellent adhesion to carbon steel subjected to abrasive blasting or phosphate conversion.								
RECOMMENDED USES:		Rec and mec	Recommended for coating transformers, radiators, refineries, chemical and petrochemical plants, pulp and paper plants, industrial machinery and equipment. Recommended for environments of low and medium aggressiveness.								
CERTIFICATIONS AND APPROVAL:			This product, when supplied to comply with the RoHs Directive (Restriction of Certain Hazardous Substances) has the letter R in its description.								
ACKAGING:	Com	ponent		Content		F	Package		Unit of measurement		
		Com	ponent A			3,6		3,6 20			L
		Com	iponent B			3,6 18		3,6 20			L
HARACTER	ISTICS: Color:			Red	oxide, and cold	ors (on reques	st)				
	Gloss: VOC co Volume Shelf-Li Thickne Theoret Resista Drying:	ntent: solid: ife: iss per co ical cove	pat (dry): rage: y heat:	Matter 150 g 78 ± 2 24 m 125 µ 5,2 m factor Maxim prope and g	2% (ISO 3233) 2% (ISO 3233) onths at 25°C. Im –175 µm 12/I without dilu rs in applicatio num temperat prices up to the ploss may occu	tion in the thin. ure 120 °C . T temperature in from 60 °C.	ckness of The produ of 120 °C	150 μm ct retains howeve	dry. Witho its physi , variation	out consid cal and ch ns in the c	ering loss nemical coating color
	Touch:			6 hours	4 hours	2 hours					
	Handlin	g:	1	6 hours	12 hours	8 hours					
	Final:		2	40 hours	168 hours	120 hours					
	Overco	ating		10ºC	25°C	35⁰C					
	Drying:		Min Max 24	8 hours 40 hours	6 hours 168 hours	4 hours 144 hours					

SURFACE PREPARATION

The performance of this product depends on the degree of surface preparation.

The surface must be clean, dry and free of any contaminants. Completely remove oils, greases and fats, as described in the SSPC-SP 1 standard.

The accumulated dirt must be removed using a dry brush, clean and dry cloth, compressed air blow, vacuum cleaner and/or with the combination of such items, and the soluble salts must be removed through wash with a great quantity of fresh water, preferably with low pressure (up to 5,000 psi) according to SSPC-SP 12/NACE No. 5.

Surface treatment by the layer conversion process (phosphating)

Execute the layer conversion process, phosphatization using zinc phosphate or tricationic, with mass between 2.0 g/m2 and 4.0 g/m2. Following the sequential steps: degrease, wash, pickling, wash, refining, phosphate conversion, wash, passivation, wash with deionized water and drying.

## TECHNICAL DATA SHEET



**NOTE:** The surface preparation must be executed according to all the sequential steps relevant to a phosphate conversion process, observing the recommendations of the pre-treatment manufacturer.

#### Surface treatment through Abrasive Blasting process

Execute the abrasive blasting to near white metal, Sa 2  $\frac{1}{2}$  grade of the ISO 8501-1 visual standard (A Sa 2  $\frac{1}{2}$ , B Sa 2  $\frac{1}{2}$ , C Sa 2  $\frac{1}{2}$  and D Sa 2  $\frac{1}{2}$ ) or according to SSPC-SP 10/NACE No. 2, SSPC-VIS 1 visual standard (A SP 10, B SP 10, C SP 10, D SP 10, G1 SP 10, G2 SP 10, G3 SP 10).

Inspect the newly blasted surface observing the presence of surface flaws that could become apparent after this stage, adopting appropriate actions to mitigate such defects through grinding, weld filling and/or epoxy putty.

In case of oxidation on the substrate from the end of the abrasive blasting to the beginning of the coating application, the surface must be blasted again until reaching the specified visual standard.

For areas close to sea air, it is necessary to wash the surface with fresh water at low pressure (minimum 3,000 psi) before the abrasive blasting. And in some cases it is necessary to repeat the washing procedure after the abrasive blasting to remove possible soluble contaminants settled on the surface proceeding with a new abrasive blasting.

#### Surface treatment by Degreasing with solvents

Completely remove oil from the surface with clean cloths soaked in cleaning solvent according to SSPC SP1. Whenever cleaning a surface with cloths, replace them to avoid saturation. Do not use cotton waste or colored cloths.

		For further information, o	consult WEG Technical Department.						
PREPARATION FOR		Mixture	Mixture						
APPLICATION		Homogenize the contents of there are no sediment settly recommended proportion ( ratio.	of each component with mechanical or pneumatic stirring (A and B). Check led at the bottom of the package. Add component B to component A, at the volume), under stirring, until complete homogenization, observing the mixing						
		Mixing ratio (Volume)							
		1 A x 1 B.							
		Diluent Diluent sl 30 Gun:							
		Diluent SL 40	For temperatures lower than 25°C.						
		Gun: Diluent SL 42/SL 30 Floodina:	For temperatures above 25°C						
		Diluent SL 42/SL 30	For temperatures above 25°C						
		Dilution							
		Depending on the applicati	ion method, dilute at most. 10%						
		<b>Pot life of the mixture (25</b> 6 h	5°C)						
		Induction time (25°C) Wait 10 to 15 minutes befo	ore application.						
		In hot areas, we recommen	nd consulting WEG Technical Department.						
APPLIC	ATION FORMS	The data below is a guide	e, and similar equipment may be used.						
		Changes in nozzle sizes and Before application, check in Purge the compressed air	nd pressures may be necessary to improve spraying characteristics. f the equipment and its components are clean and in best condition. line to prevent contamination of the coating.						
		After mixing two-componen coating shows variation in	nt products, if there are stops in the application, and pot life is exceeded (the fluidity) it can no longer be diluted for further application.						
		In the spray application, matechnique is used to avoid	ake a 50% overlap in each gun pass, concluding with a cross pass. This uncovered and unprotected areas and to obtain a suitable aesthetic finish.						



### TECHNICAL DATA SHEET



Recoat all sharp edges, cracks and weld beads with a brush to prevent premature failures in these areas.

	<b>Conve</b> Gun: Fluid n Air cap Atomiz Pressu Dilutio	entional gun: lozzle: b: ation pressure: ure in the tank: n:		JGA 502/3 Devilt EX 704 50 - 70 psi 10 - 20 psi 10%	biss or equivalent			
	<b>Airles</b> Use Ai Fluid p Hose: Nozzle Filter:	<b>s Gun:</b> rless: oressure: o:		Use at least pum 2000 – 3000 psi ¼" internal diame 0,015" - 0,021" Mesh 60	p 60: 1 eter			
	Dilutio <b>Flood</b> i	n: i <b>ng:</b>		Max. 5%				
	Applica	ation viscosity varies	according to the	ambient tempera	ature and equipme	ent height.		
	Brush Only re brush and/or recom	Brush: Only recommended for touch up small areas or stripe coat (screws, nuts, weld and sharp edges). Use a brush 75 to 100 mm wide for larger surfaces and 25 to 38 mm for touch up.For application with brush and/or roller, two or more passes may be necessary to obtain a uniform layer according to the recommended film thickness per coat.						
NOTE:	Roller Use a Cleani Diluen Clean	thin nap, seamless sl i <b>ng the equipment:</b> t sl 30 all equipment immed	heepskin or micr iately after use.	ofiber roller for ep	boxy coatings.			
	Do not will var cleanir Furthe cleanir delays	leave catalyzed proc y in fluidity at temper ng difficult. rmore, it is a good wo ng frequency will depo	duct in contact w ratures above sp orking practice to end on the amou	ith the equipment ecificated in the p periodically was unt sprayed, temp	used in the applic bot life and will cur h the spray equip erature and elaps	cation, becaus re faster, mak ment along th sed time, inclu	se the coating ing the e day. The ding all	
	<b>CEINTHE</b> For a g	good performance of	the product, we	recommend follow	wing the directions	s below:		
	In pain betwee	In paintings carried out in front of the sea, if exposed to sea air, we recommend to wash with fresh water between coats eliminating settled impurities.						
	Do not	Do not apply the product after the pot life has expired.						
	We red	We recommend coating only if the surface temperature is at least 3 °C above the dew point temperature.						
	Variati and lov tempe	Variations in color, aspect and gloss (more noticeable in dark colors) may occur, as well as delay in curing and low coating performance, when applied during periods of high air relative humidity, rainy days, low temperatures or drying the coating outdoor.						
	The te during	mperature of the sub- the curing of the proc	strate, the weath duct, and the thic	er and environme ckness of the coa	ental conditions du t may interfere in t	uring the appli the product di	ication and rying time.	
	Epoxy 10 °C,	systems may have lo consult WEG Techni	onger curing time ical Department.	e when exposed t	o low temperature	es. For temper	ratures below	
	During appea	the initial cure (first 2 rance.	24 hours), the hu	imidity should not	exceed 70%, at t	the risk of com	promising the	
	For be and ap	tter application prope pplication.	erties, the coating	g temperature sho	ould be between 2	21 - 27 °C prio	r to the mixing	
	It shou surfac air rela dry ou	It should not be applied in adverse conditions, such as air relative humidity above 70% or on condensed surfaces. Small variations in color, appearance and gloss of the coated parts may occur in periods of high air relative humidity, rainy days, at low temperatures or in situations where the coated parts are placed to dry outdoors.						
	In coat	In coatings with variation in application method in the same job, the final aspect and gloss of the painted						



surfaces may show differences.

	As this product is a Primer, there may be color variation between batches of this material. For further information, consult WEG Technical Department.							
SAFETY PRECAUTIONS	Product developed for industrial use intended for handling by qualified professionals.							
	Please read carefully all the information contained in the MSDS of this product, available at: www.weg.net.							
	Store in a covered, well-ventilated area. Keep the container tightly closed and away from sources of heat or ignition.							
	Use only in well-ventilated areas avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.							
	Do not inhale mists / vapors / aerosols generated during handling and / or application.							
	Wear protective gloves / protective clothing / eye protection / face protection.							
	Avoid release this product and its packaging, as well as materials used during handling and application in the environment.							
NOTE:	The information contained in this technical datasheet is based upon the experience and knowledge acquired in the field by the technical team of WEG.							
	If using the product without previous inquiry to WEG Coating concerning its suitability for the customer's intended purpose, the customer is aware that the use shall be its exclusive responsibility, WEG not being responsible for behavior, safety, suitability or durability of the product.							
	Some information contained in this datasheet are estimated, and can undergo variances arising from factors outside the manufacturer's control. Thus, WEG does not guarantee and does not assume any responsibility regarding the yield, performance or any other material or personal damage resulting from the incorrect use of the products concerned or the information contained in this Technical datasheet.							
	The information contained in this technical datasheet is subject to periodic modification, without prior notice, due to the policy of evolution and continuous improvement of our products and services, providing solutions with quality to satisfy our customers' requirements.							