

# SYLPYL 3600/3480

PRODUCT DESCRIPTION: It is an eco-fri barrier for all extremely hig is suitable for chemical and steel and con protection in t			an eco-frie er for all t mely high itable for nical and and cond ction in tu	riendly, multi-resin epoxy coating, solvent-free, that acts as a high-performance fire types of steel structures. It is classified as PFP (Passive Fire Protection), with gh effectiveness against industrial fires such as hydrocarbon "pool fires" or "jet fires." It r protecting gas or fuel storage tanks, equipment, steel structures, and firewalls in d oil industry facilities in the event of a fire. It can also be used for fire protection of ncrete structures in commercial buildings and warehouses. Ideal for concrete tunnels in case of fires and explosions.								
RECOMMENDED USES: It is applied to supports, on p				lied to steel and concrete surfaces on structures such as columns, beams, tanks, and process tower s, on pipe racks and piping itself, over a recommended primer when necessary, as well as on all types								
CERTIFICATIONS AND APPROVAL: Standard, it i M-501, Revi under the UI 834 and AS			plies with acted at U ements o ard, it is a I, Revisio the UL 2 nd ASTM	ristaliauoris. It can also be applied over gaivarized suffaces, concrete, and wood. vith the UL 1709 Standard (Rapid Rise Fire Tests of Protection Materials for Structural Steel) t UL Laboratories (Underwriters Laboratories). It is also approved under the environmental s of the UL 1709 Addendum A Standard. Additionally, as required by the aforementioned is approved by Norner Laboratories in Norway (Report No.: SL 16177) under the NORSOK sion 6, System 5A, in accordance with the ISO 20340 testing protocol. It is also approved L 263 Fire Resistance Standard, which is similar or equivalent to international standards ISO TM E-119. This system complies with NORSOK M-501, System 5A.								
	Furthermore BS ISO 2289 conducted a Lloyd's Regi			re, as required by the aforementioned standard, this product is certified under the Jet Fire Test 2899-1:2007 (Determination of the Resistance to Jet Fires of Passive Fire Protection Materials) at the Health and Safety Laboratory in the United Kingdom (U.K.), with certification from gister and Det Norske Veritas-GL.								
		This s with A the AS with th	ystem m PI 2218 STM E-84 ne NRF-0	eets the re "Fireproof 4 combust 065-PEME	equireme ing Prac ibility sta X-2014	ents of the API (Am ices in Petroleum a ndard with a Class standard.	erican Pe and Petro A flame	etroleum I chemical spread in	nstitute), Processii dex of 0 t	specificall ng Plants o 25. It al	ly complying ," and meets so complies	
PACKAGING:		Comp	ponent			Content	Pa	ckage		Unit o	f measurement	
		Comp	ponent A			2,54		3,785			L	
		Comp	oonent B			1,26		3,785			L	
CHARACTERISTICS:	Color			Grav								
CHARACTERISTICS:	Color: Gloss:			Gray								
CHARACTERISTICS	Color: Gloss: VOC con	tent:		Gray Matte 5,4 g/	 I							
CHARACTERISTICS	Color: Gloss: VOC con Volume :	tent: solid:		Gray Matte 5,4 g/ 99 ± 1	I 1% (ISO	3233).						
CHARACTERISTICS	Color: Gloss: VOC con Volume : Shelf-Lif	tent: solid: e (25°C):		Gray Matte 5,4 g/ 99 ± 1 12 mo	I I % (ISO nths	3233).						
CHARACTERISTICS	Color: Gloss: VOC con Volume Shelf-Lif	tent: solid: e (25°C): ss per coa	at (dry):	Gray Matte 5,4 g/ 99 ± 1 12 mo 2.000	I I % (ISO nths μm – 20	3233). .000 μm						
CHARACTERISTICS	Color: Gloss: VOC con Volume : Shelf-Lif Thicknes Theoreti	tent: solid: e (25°C): ss per coa cal covera	at (dry): age:	Gray Matte 5,4 g/ 99 ± 1 12 mo 2.000 0,47 r factor	I I% (ISO nths μm – 20 n²/I withc s in appl	3233). .000 µm out dilution in the th ication.	ickness o	f 2.000 μ	m dry. Wi	thout con	sidering loss	
CHARACTERISTICS	Color: Gloss: VOC con Volume : Shelf-Lif Thicknes Theoreti Resistan	tent: solid: e (25°C): ss per coa cal covera	at (dry): age: heat:	Gray Matte 5,4 g/ 99 ± 1 12 moi 2.000 0,47 r factor Maxim prope may c	I nths μm – 20 n²/I witho s in appl num tem rties up f occur.	3233). .000 µm out dilution in the th ication. perature 60 °C . Th o the temperature	ickness c ne produc of 60 °C.	f 2.000 μ t retains i From this	m dry. Wi ts physica s tempera	thout con al and che ture onwa	sidering loss emical ard, variations	
CHARACTERISTICS	Color: Gloss: VOC con Volume : Shelf-Lif Thicknes Theoretic Resistan	tent: solid: e (25°C): ss per coa cal covera	at (dry): age: heat:	Gray Matte 5,4 g/ 99 ± 1 12 mo 2.000 0,47 r factor Maxin prope may c	I nths μm – 20 n²/l witho s in appl num tem rties up f bccur.	3233). .000 µm out dilution in the th ication. perature 60 °C . Th o the temperature	ickness o ne produc of 60 °C.	f 2.000 μ t retains i From this	m dry. Wi ts physica s tempera	thout con al and che ture onwa	sidering loss emical ard, variations	
CHARACTERISTICS	Color: Gloss: VOC con Volume s Shelf-Lif Thicknes Theoreti Resistan	tent: solid: e (25°C): ss per coa cal covera	at (dry): age: heat:	Gray Matte 5,4 g/ 99 ± 1 12 mo 2.000 0,47 r factor Maxin prope may c	I I% (ISO nths μm – 20 n²/I witho s in appl num tem rties up f occur.	3233). .000 μm out dilution in the th ication. perature 60 °C . Th o the temperature	ickness o ne produc of 60 °C.	f 2.000 μ t retains i From this	m dry. Wi ts physica s tempera	thout con al and che ture onwa	sidering loss emical ard, variations	
CHARACTERISTICS	Color: Gloss: VOC con Volume s Shelf-Lif Thicknes Theoretic Resistan Drying: Touch:	tent: solid: e (25°C): ss per coa cal covera	at (dry): age: heat:	Gray Matte 5,4 g/ 99 ± 1 12 moi 2.000 0,47 r factor Maxin prope may o	I nths μm – 20 n²/l witho s in appl num tem rties up t occur. 20 21	3233). 000 µm but dilution in the th ication. perature 60 °C . Th o the temperature	ickness o ne produc of 60 °C.	f 2.000 μ t retains i From this	m dry. Wi ts physica tempera	thout con al and che ture onwa	sidering loss emical ard, variations	
CHARACTERISTICS	Color: Gloss: VOC con Volume : Shelf-Lif Thicknes Theoreti Resistan Drying: Touch: Handling	tent: solid: e (25°C): ss per coa cal covera nce to dry	at (dry): age: heat:	Gray Matte 5,4 g/ 99 ± 1 12 mo 2.000 0,47 r factor Maxin prope may c	I without the second s	3233). .000 μm out dilution in the th ication. perature 60 °C . The o the temperature	ickness of ne produc of 60 °C.	f 2.000 μ t retains i From this	m dry. Wi ts physica s tempera	thout con al and che ture onwa	sidering loss emical ard, variations	

Overcoating Drying:	20 °C	
Min	3 hours	
Max	24 days	



#### SURFACE PREPARATION

The performance of this product is directly linked to the degree of surface preparation. Completely remove oils, grease, and other contaminants using a degreasing product or by following the solvent cleaning method described in SSPC-SP1. Prepare the surface by abrasive blasting to near-white metal, SSPC-SP10 (ISO 8501-1 Sa 21/2), with an anchor profile according to ISO 8503, medium Grade G, between 25 and 75 microns.

For small repairs, manual or power tool cleaning methods SSPC-SP2 or SSPC-SP3 may be used when appropriate.

Inspect the freshly blasted surface for any surface defects that may become visible after this step, and apply appropriate practices to minimize such defects through grinding, weld filling, and/or epoxy filler. If oxidation occurs on the substrate between the end of the abrasive blasting and the beginning of the coating application, the surface must be re-blasted to achieve the specified visual standard.

ON CONCRETE: Prepare the concrete by abrasive blasting to remove the surface layer, curing compounds, release agents, and all contaminants, exposing sound concrete free of surface laitance or scaling. Repair any imperfections. When necessary, power tool cleaning may be used, provided it ensures the same level of cleanliness.

#### Application over primer

Apply one coat of SYLPYL 14 epoxy primer with zinc derivatives as corrosion inhibitors, at a thickness of 40 to 50 µm.

For exterior applications and enhanced chemical and UV resistance, it is recommended to apply 3 to 4 topcoats in the desired color using SYLPYL 2001 AS polyurethane, at a thickness of 150 to 200 µm.

Surface preparation; application of SYLPYL 14 primer; application of SYLPYL 3600/3480 fire barrier at the recommended thickness; placement of an intermediate reinforcement layer with SYLPYL 938 silica fiber; and application of the topcoat.

NOTE: Respect the product's recoat interval before applying the next coat. If the maximum recoat interval is exceeded, it is necessary to perform light manual or mechanical sanding to dull the gloss of the previous layer, followed by thorough removal of dust and sanding residue to ensure proper intercoat adhesion.

For further information, consult WEG Technical Department (tintas@weg.net).







PREPARATION FOR APPLICATION		2	<b>Mixture</b> Homogenize the contents of each component (A and B) using mechanical or pneumatic agitation. Ensu that no sediment remains at the bottom of the container. Add component B to component A in the specified mixing ratio, under continuous agitation, until complete homogenization is achieved, strictly observing the recommended mix ratio.
			Mixing ratio (Volume) 2 A X 1 B.
			Diluent Diluente epoxi 3012
			<b>Dilution</b> Depending on the application method, dilute by a maximum of 5%.
			Do not dilute with solvents that are not permitted by local regulations, and do not exceed the specified dilution percentage.
			Only add the diluent after the complete mixing of components A + B. The amount of diluent may vary depending on the type of equipment used and the environmental conditions during application. Excessive dilution of the paint may affect film formation, appearance, and make it difficult to achieve the specified thickness.
			Pot life of the mixture (25°C) 3 h The pot life of the mixture is reduced with an increase in ambient temperature. The pot life test is conducted according to the ABNT NBR 15742 standard; however, different paint volumes mixed at once, along with varying ambient and paint temperatures, will influence the pot life, potentially yielding results different from those mentioned in this technical data sheet.
			Induction time (25°C No induction time is required.





In hot areas, we recommend consulting WEG Technical Department.

APPLICATION FORMS		The data below is a guide, and similar equipment may be used. Changes in pressure and nozzle sizes may be necessary to improve spray characteristics.									
			Before application, ensure that the equipment and respective components are clean and in optimal condition.								
			After mixir (resulting i	ig the two n a change	-compone e in paint f	ent produc flow), it ca	cts, if there is a an no longer be	a pause in t re-diluted fo	he applic r subsequ	ation and the pot uent application.	life is exceeded
			Reinforce When app areas, finis	all sharp c lying by sp shing with a	corners, so praying, o a cross pa	eams, an verlap ea ass.	nd weld beads which pass of the	with a brush spray gun b	to avoid ly 50% to	premature failure avoid uncovered	s in these areas. and unprotected
			Airless G	iun:							
			GRACO M nozzle (1/4	680 equip ). For larg	ment with er projects	a 10:1 pi s, use the	ressure ratio, us e GRACO XM P	sing the HTX PFP equipme	( 680 spra nt.	y gun with a num	ber 4 air-assisted
			Aplicaçã	o manua	l:						
			With a spa	tula, metal	trowel, a	nd levelin	ig bar.				
NOTE:			<b>Cleaning</b> Diluent ep Clean all	<b>the equip</b> ooxi 3012 equipment	ment:	tely after	use.				
			De set ell					t de la com			
			Do not all higher tha making cl	ow the cat in those sp eaning mo	alyzed pro becified in re difficult	the pot li the pot li	emain in contact fe section will c	ause the pair	nt to char	equipment, as ten ige its flow proper	ties and harden,
			It is also of frequency	onsidered will deper	good pra	ctice to p amount s	eriodically wasł prayed, temper	n the spray e ature, and el	quipment lapsed tim	throughout the dane, including any o	ay. The cleaning delays.
PERFORI APPLICA	MANCE II TION	N THE	For a good	l performa	nce of the	product,	we recommend	d following th	e directio	ns below:	
			It is easily a period to all It develops film has ext over time. I exposed to	pplied in a ow fire figh excellent a raordinary t does not corrosion.	dequate t nting, whil adhesion cohesion crack or	hicknesse e also pre to steel a and hard detach de	es that ensure t eventing the fire and also exhibits lness. These ch uring its service	he integrity o e from spread s outstanding aracteristics e life, ensurir	of the insta ding to ad g corrosio prevent the ng that the	allations for a suffi jacent areas. n-inhibiting prope he fire protection f e metal remains p	ciently prolonged rties. The formed rom deteriorating protected and not
			It functions times its or nanocompo phenomeno steel agains temperature	as an intur iginal thick nents it c in that abs it overheat es generat	mescent c mess. Ho ontains tr orbs a tre ting is ach ed.	coating, as wever, un cansition emendous hieved, pr	s it expands wh nlike similar pro directly from a s amount of he eventing it from	en exposed a oducts, it is solid state at from the f a losing its sta	to direct f also subl to the va ïre. In this ructural m	ire, swelling and ir imating, as the sp apor phase, simila s way, the necess nechanical strengt	ncreasing several becial resins and ar to dry ice— a sary protection of th due to the high
	Throughout this process, it gradually transforms into an insulating layer of carbon that protects the substrate, keeping its temperature much lower than that of the flame. This prevents the risk of structural deformation or collapse of the installation, as well as the undesired overheating of storage tank contents or piping, thus minimizing the high risks of explosion. Additionally, FIRESYL SYLPYL 3600/3480 is an eco-friendly product, solvent-free, and free of asbestos, lead, and chromates. This product does not contain loose mineral fibers that could contaminate a building or work areas.										
			It withstand flame to spi	s high tem ead to oth	peratures er areas,	from hyd thereby p	rocarbon-derive	ed fires, exce from overhea	eding 110 ating.	00°C (2000°F), wi	thout allowing the



### Advantages of FIRESYL SYLPYL 3600/3480 in Case of Fire:

Its performance as passive fire protection has been tested and certified by UL laboratories, in accordance with UL 1709 and UL 263 standards.

It is also certified according to the European Jet Fire standard BS ISO 22899 for exposure to jet fire hazards at supersonic speeds (*Jet Fires*).

It acts as an effective anticorrosive, unlike other cementitious fire barriers (SFRM) that do not offer corrosion protection.

It prevents the overheating of products stored in tanks, reducing the risk of severe explosions and avoiding premature collapse of installations exposed to fire.

It maintains its properties for many years, even in highly aggressive industrial or marine environments (certified according to NORSOK M-501).

It forms a protective film that does not disintegrate and has high wear resistance.

It has excellent adhesion to steel and concrete, far exceeding the poor adhesion of cementitious materials. An eco-friendly and environmentally safe product, non-polluting.

It develops extremely high resistance to corrosion, wear, and impact.

Its weather resistance is excellent, further enhanced when combined with high UV-resistant finishes such as Sylpyl polyurethane or polysiloxane.

It meets all environmental requirements of UL 1709 Addendum A, as tested by UL laboratories, including:

- Accelerated aging for 270 days;
- High humidity for 180 days;
- UV exposure for 135 days;
- Industrial atmosphere for 30 days;
- Salt spray chamber for 90 days;
- Humidity, freezing at -40°C, and drying at 60°C cycles;
- No loss of performance under fire conditions after testing.

For further information, please contact the WEG Technical Department. (tintas@weg.net).

## TECHNICAL DATA SHEET



SYS	STEM COMPATIBILITY AND INTENANCE RECOATING	The primer recoat interval must be respected before applying the topcoat. If the maximum indicated recoat interval is exceeded, manual or mechanical sanding using abrasive paper is required to break the gloss. The primer surface should be dry and free of contaminants.							
		For further information, please contact the WEG Technical Department.							
SAF	ETY 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							
NOT	ΓΑ:	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.							

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TECHNICAL DATA SHEET







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