# EPOGUARD VARNISH – TWO PACK EPOXY CLEAR PRIMER FOR CONCRETE

DESCRIPTION				www.toagroup.com.vn
	<b>EPOGUARD VA</b> concrete.	RNISH is a tw	vo pack epoxy / polyam	ide clear primer for
TYPICAL USE	<b>EPOGUARD VARNISH</b> is used as an epoxy primer for concrete surface, applied in floor and wall. Product has excellent adhesion, ability to penetrate into concrete surface, abrasion resistance; resistance to water, weak acid, weak basic and chemical.			
<ul> <li>PRODUCT DATA</li> <li>Components</li> <li>Color</li> <li>Paint film appearance</li> <li>Solid by volume</li> <li>Theoretical coverage</li> </ul>	<ul> <li>: 47 ± 2 %</li> <li>: 7.8 - 11.8 m<sup>2</sup>/liter/ Actual surface cover</li> </ul>	/coat rage will be deper	nded on spreading ability o nique and wastage during	
• Volatile organic compou		0 ,	1 0 0	
(VOCs)	: ≤ 300 g/L			
. Flash point	: appx.28°C			
• Drying time (at relative humidity (RH) 50% & dry film thickness (DFT) 50μm - 60μm):				
• Surface temperatur		25°C	30∘C	35∘C
• Surface dry (touch dry)		4h	3h	2h
• Hard dry		14h	13h	12h
• Painting interval: Minimum		16h	14h	12h
	aximum	2 days	2 days	2 days
$\circ$ Pot life		10h	9h	8h

Actual drying time and painting interval time may be longer or shorter than provided data, depended on environmental temperature, dry film thickness, ventilation, humidity and number of coating applied, etc.

### **RECOMMENDED PAINT FILM SYSTEM:**

SYSTEM	PRODUCT	COAT(S)	DRY FILM THICKNESS
Primer	Epoguard Varnish	1	50µm
	Epoguard Enamel (for inside area)		
Topcoat	or	2	50µm
	Topguard (for outside area)		

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This Technical Data Sheet supersedes those previously issued.

# Technical data sheet

# APPLICATION INSTTRUCTION

# SURFACE PREPARATION

> Wall:

# + For new concrete:

- The concrete should be laid on nylon sheets or HDPE to block moisture from underground.
- Left the concrete for curing to solid and dry for about 3-4 weeks. Then, clean the surface from dust, dirt, grease and most importantly, the surface is completely dry. (Check moisture content must not exceed 4%)

# + For old concrete:

 Remove old paint film at areas that loose adhesion to as much as possible by Scraping with a shovel or Grinding machine to enhance adhesion. Then, clean the surface from dirt, grease and most importantly, the surface is completely dry. (Check moisture content must not exceed 4%).

# > Before Recoat by Topcoat:

- Remover all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning before coating.
- If primer / first topcoat layer was applied over last 7 days, gives surface cleaning by sand paper no. 320-400 then follow SSPC-SP1, Solvent Cleaning before next coat applied.
- Surface repair (cracks, pores, holes) done with suitable materials and polishing of surface with suitable equipments.

### MIXING RATIO

Mixing ratio	Part A	Part B
By volume	4	1
By weight	4	1

Stir well Part A and Part B separately.

To ensure painting system achieves drying time and designed physical properties, recommended mixing ratio should be strictly followed.

Gradually pour Part B into Part A, stir well in 2 – 3 minutes with dedicated stirrer until homogeneous. Leave the mixture for stabilization in 5 minutes before applying.

### APPLICATION

Paint film thi

### **Equipment / methods:**

Brush, roller, conventional spray, airless spray

For airless spray gun:

ickness:		Min	C+-
-	Pressure at nozzle	: -	
-	Angle to the surface	: 65° - 80°	
-	Nozzle tip size	: 0.012" - 0.019	9"
	1 98		

	Min	Standard	Max
<ul> <li>Dry film thickness (DFT):</li> </ul>	40µm	50µm	60µm
- Wet film thickness (WFT):	85µm	106µm	127µm
Film thickness will vary and is calcu	lated as avera	<i>ao</i>	

Film thickness will vary and is calculated as average.

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**Dilution ratio:** 

Paint is ready to use after proper stirring until homogeneous.

#### Add in maximum 5% TOA epoxy thinner #31 by volume if thinning is

#### necessary.

Dilution percentage is depending on ambient temperature, relative humidity, paint film thickness, equipment and application method.

### CERTIFICATION

*TCVN 9014:2011 – National technical regulation on Epoxy resin paints* certified. *QCVN 08:2020/BCT – National technical regulation on the limits of lead content in paints* certified.



### HANDLING AND STORAGE

The product must be stored in accordance with national regulations.

Store in a dry, cool, good ventilation area; far from heat, open flame, flammable materials.

Tightly closed when not in use.

Keep out of reach of children.

Stir well before use, paint should be used up when lid opened.

Storage temperature is recommended at 25°C – 30°C.

Do not apply when temperature is lower than 15°C or higher than 40°C.

Do not apply when relative humidity exceeds 75%.

Surface temperature should be at least 3°C higher than the dew point of the air.

### **HEALTH AND SAFETY**

Please do not handle until all safety precautions have been read and understood.

Keep away from heat, sparks, open flame, hot surface. No smoking.

Wear protective gloves, respirator, eye protection, protective clothing.

Avoid contact with skin, eyes or ingestion. Go right to the nearest health center for help in case of ingesting paint or paint contacts with eyes.

Avoid release to the environment. Treat discarded paint according to environmental law.

See more guidelines in the Safety Data Sheet.

### PACKAGING

net volume (liter)

volume of can (liter)

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# **Technical data sheet**

EPOGUARD VARNISH Part A	3  4   16	3.785   5   20
EPOGUARD VARNISH Part B	0.785  1   4	0.8   1   5

### SHELF LIFE

24 months from manufacturing day when stored at 25°C – 30°C

### DISCLAIMER

The information in this data sheet is given to the best of TOA's knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, TOA cannot guarantee anything only the quality of the product itself. TOA reserves the right to change given data without notice.

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