



Rev. 1 10/2017

FEATURES

: EPOGUARD W is a high build two pack liquid epoxy as a primer / topcoat, containing no coal tar for use in interior lining for pipes and tank containing potable water. This product is approved according to AWWA C 210 and TIS 1048-2551 for use in pipeline transporting drinking water. As a epoxy coating for pipeline interiors and exteriors, storage tank, penstocks, surgetanks, gates, circulating water lines, Concrete and Steel. It has excellent adhesion, toughness, impact resistance, abrasion resistance, resistance to sea water and water and high resistance to cathodic protection.

TECHNICAL INFORMATION

Type : Epoxy for tank containing potable water
 Color : Blue
 Film appearance : Semi-Gloss
 Specific gravity : 1.36 ± 0.05
 Solid by volume : 70 ± 2 %
 Flash point : 33 °C

		Minimum	Maximum	Recommended
Dry film thickness	(Microns)	200	400	400
Wet film thickness	(Microns)	285	571	571
Theoretical coverage.	m ² / Liter	3.5	1.8	1.8
	m ² / Gallon	13.2	6.6	6.6
Practical coverage.	m ² / Liter	3.2	1.6	1.6
	m ² / Gallon	12.0	6.0	6.0

Remark : Actual Surface coverage will depend on surface irregularities, Mixing, Application Condition method and technique; as well as the structure and dimensions of the object to be coated.

	Temperature	25 °C	30 °C	35 °C
Touch dry	Surface dry	4 hrs.	3 hrs.	2 hrs.
	Hard dry	8 hrs.	7 hrs.	6 hrs.
Recoat dry	Minimum	16 hrs.	13 hrs.	10 hrs.
	Maximum	7 days	5 days	4 days
Potlife		7 hrs.	5 hrs.	3 hrs.

Remark : Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly.

REFERENCE STANDARD

REFERENCE CERTIFICATION

TIS 1048-2551

APPLICATION

	Mixing Ratio	Part A	Part B	
	By Volume	4	1	
	By Weight	86	14	
	Application Method	Airless Spray	Air Spray	Brush / Roller
	Diluted by TOA Thinner 31	5-10	15-20	10-15



Rev. 1 10/2017

Applicator	Graco 415 Graco 513	Coventional Spray (Iwata)	Short Hair Stiff Nylon Roller (Stanley) Stiff Nylon Brush
Pressure	120-150 kg/cm ²	3-4 kg/cm ²	-

Mix Part A and Part B, strictly follow mix ratio recommendations before dilute by Thinner mixing and stir for 2-3 minutes until the mixture is homogeneous after leave 5 minutes before application.

APPLICATION SYSTEM

Surface Preparation

Steel

: Should be blast cleaned in accordance with NACE No.2 / SSPC-SP10 / ISO 8501:1 / SIS Sa 2.5 to a near-white finish using a suitable abrasive. And/or by use the surface preparation with requirements. of the primer and/or as the Spec of the project.

Remark : The surface must be thoroughly dry and apply the protective coating within 4 hours to cleaned surface.

Wall

: For New concrete - The concrete prior to laying plastic sheets to block moisture from underground. Then it should be left for curing concrete to solid and dry for about 3-4 weeks. Then, clean the surface free from dust, dirt, grease and most importantly, the surface is completely dry.

(Check moisture content must be less than 14%)

: For Old concrete - To remove the old paint film which loosely adhesion to as much as possible by Scraping with a shovel or Grinding machine to enhance adhesion. Then, clean the surface free from grease and oil with suitable solvent. Before primer coating should clean all surfaces free from dust, dirt, grease and most importantly, the surface is completely dry. (Check moisture content must be less than 14%).

Before Recoat by Topcoat

: Remover all oil, grease, dirt, oxide and other foreign material by cleaning per SSPC-SP1, Solvent Cleaning before coating.

: If over 7 days gives cleaning surface by sand paper no. 320-400 and cleaning surface per SSPC-SP1, Solvent Cleaning before coating.

: Surface repaire (cracks, pores, holes) done with TOA Epoxy putty and polishing of surface with moltoprene disk.

Coating System

Protective Coating
and
Concrete protective Coating

: **Primer & Topcoat** **EpoGuard W** **400 microns x 1 coat**

Recommendation

: The proper relative humidity in the work shall not exceed 85% RH.

: The temperature of the substrate should be minimum 10°C and at least 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate for prevent moisture and water drop on substrate effective adhesion and drying time.



Rev. 1 10/2017

HANDLING AND STORAGE

Storage condition

: The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition.

Shelf life

: 24 months at 30-35 °C

: The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition.

Containers must be kept tightly closed.

Package

Packaging size	Part A :	Part B :
5 Gallon Set	5 Gallon	1 Gallon
1 Gallon Set	1 Gallon	1/4 Gallon

HEALTH AND SAFETY

: Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

: For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Safety Data Sheet.

DISCLAIMER

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