

Technical Data Sheet  
Number : E-035 01  
Effective Date : 01/02/2020



## EPG-233-2K EXT WB



### Epoxy Water Based Ekterior System

#### PRODUCT DESCRIPTION

**EPOGREEN EPG-233-2K EXT WB** is a two component water based epoxy modified coating with good UV resistant. Is suitable for interior and exterior uses for floor and wall coating system. It can be used as a top coat for protective coating system on metal / steel substrate. For metal / steel structure should be treated with epoxy anti – corrosion coating prior to application of EPOGREEN EPG-233-2K EXT WB.

#### FIELDS OF APPLICATION

- Car port / Car garage
- Stadium area
- Hospital, Supermarket, Boutique shop, Restaurant and Canteen
- Warehouse
- Floor and wall, especially for food, beverages and pharmaceutical factory

#### ADVANTAGES

- Water based two component (2K) system as primer and topcoat
- For interior and exterior application
- Excellent adhesion to concrete
- Food Grade (US FDA 21 CFR 175.300)
- Hygienic, good fungus and biological resistant
- Fast dry and odorless
- Horizontal and vertical application
- Easy to clean and easy to apply

#### TECHNICAL DATA

Type	: Two component water based epoxy modified coating
Color	: As shown in the color card
Finish	: Doff
Solid by Volume (mixture)	: $\pm 48\%$
Specific Gravity (mixture)	: $\pm 1.17 \text{ gr/cc}$
Material Consumption	: $0.23 \text{ kg-set/m}^2$ for $\pm 100 \text{ microns DFT}$
Drying Time (30°C)	:
- Surface Dry	: 2 hours
- Hard Dry	: 20 hours
- Full Cure	: 7 days
- Open Traffic	: 24 hours for foot traffic and 7 days for vehicular traffic
Packaging	: 10 and 40 kg-set
Storage Stability	: One year in cool and dry storage and in original not opened box.
Mixing Ratio by Weight	: Comp A : B = 1 : 1 w/w
Pot Life	: 60 minutes in 30°C
Application Method	: Squeegee and epoxy roll
Re-coating Interval (30°C)	: 6 - 8 hours
Application Temperature	: 25 - 35 °C
Humidity Maximum	: 80 % RH
Provide adequate ventilation during application and dryin	



**TEST PERFORMANCE DATA**

Item	: Result	Standard Test
Bonding Strength	: > 2 N/mm <sup>2</sup> concrete failure	ASTM D-4541
Abrasion Resistant	: 0.035 gr loss	ASTM D-4060
Impact Resistant	: 20 cm (1 kg)	ASTM D-2794
Hardness	: 50 osc in 7 days	ASTM D-4336 (Shore D)
Flash Point	: Non flammable	Setaflash
Scratch Resistant	: 14 x	Crock meter
Gloss Level	: 20 - 30 %	Gloss meter
Water Resistant	: Excellent	Karsten test
Solvent Resistant	: Excellent*	
Chemical Resistant	: Excellent*	
Pot Life	: 60 minutes (30°C)	
Temperature Resistant	: 0 - 70°C	

\* consult with Propan for solvent and chemical list

**INSTRUCTION FOR USE****Surface Preparation**

Compressive strength of concrete floor not less than 25 N/mm<sup>2</sup> in more than 28 days. Moisture content should be less than 7% and the surface temperature must be at least 3°C above current dew temperature. Remove oil contaminants using industrial grade detergent or degreasing compound as chemical cleaning and mechanical cleaning.

**Application Procedure**

Function	Product and Tools	Coating amount	Curing Time
Patching	: Polyfloor mortar PFM-222-3K SF. Mix well comp. A and B using mixer $\pm$ 1 minutes. Pour the comp. C while stirring, slowly $\pm$ 1 minutes and apply with metal trowel. Mixing ratio comp. A : B : C = 3 : 2 : 35 by weight	22 kg-set /m <sup>2</sup> /cm	$\pm$ 8 hrs (30°C)
Primer Coat	: Epogreen EPG-233-2K EXT WB. Mix comp. A slowly before mixing. Pour comp. B to comp. A while stirring, mix well using mixer $\pm$ 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 1 : 1 by weight. Clean water can be added $\pm$ 15% if needed	0.23 kg-set/m <sup>2</sup> /100 mic DFT	$\pm$ 8 hrs (30°C)
Top Coat	: Epogreen EPG-233-2K EXT WB. Mix comp. A slowly before mixing. Pour comp. B to comp. A while stirring, mix well using mixer $\pm$ 2 minutes and apply with rubber squeegee and then epoxy roll. Mixing ratio component A : B = 1 : 1 by weight. Clean water can be added $\pm$ 15% if needed Do the same step for the next coat  Top coat can be used in 24 hours for foot traffic and 7 days for vehicular traffic	0.23 kg-set/m <sup>2</sup> /100 mic DFT	

**RECOMMENDED COATING SYSTEM**

Preceding coats	: Epoxy primer Polyfloor PFP-231-2K WB : Epogreen series
Subsequent coats	: Polyfloor PUAS-620-2K WB series : Top Seal TS-204-1K WB : Propan UV Floor series



## CLEANING

EPOGREEN EPG-233-2K EXT WB should be removed from tools and equipments with clean water. Hardened material can be removed mechanically only.

## SAFETY PRECAUTIONS

EPOGREEN EPG-233-2K EXT WB is not flammable and does not contain heavy metals in its materials such as lead. Avoid Contact with skin and eyes. Do not inhale. Wear suitable protective equipment such as goggles, dust mask and gloves. Do not smoke near this product and use only explosion proof equipment.

### First Aid

Skin contact : Rinse under plenty of water immediately. Seek medical advice if irritation persists.  
Eye contact : Wash off under plenty of water immediately. Seek medical advice if irritation persists  
Inhalation : Take the person out to get more fresh air, loosen collar and avoid exertion. Keep him rested and help using breathing apparatus.

