



FEATURES

- : FLOORGUARD PUTTY is a two component system consisting of epoxy resin and hardener which is convenient to use. It is designed to reduce spall-back and support the joint edges of concrete floors subjected to hard wheel traffic. This product is a 100 % solids, non-shrink epoxy which forms a tough resilient material used to repair existing cracks and other spall joints in concrete floors.
- : Solvent Free - 100% Solids
- : Can be applied in thick coats
- : Easy to apply with spatula
- : Quick setting
- : Excellent adhesion to most materials
- : Covers up surface imperfections, cracks and undulations.
- : Remains flexible
- : Good mechanical strengths
- : No shrinkage after filling
- : Easy to sanding with sandpaper for surface preparation give smooth
- : General purpose adhesive
- : Bonding hardened concrete to hardened concrete
- : Joints and cracks filler
- : As a flexible epoxy mortar binder to repair spall or damaged joint

TECHNICAL INFORMATION

- Type** : Epoxy / Polyamine (Chemically crosslinking)
- Color** : Part A : Off-White , Part B : Red Light
- Film appearance** : Semi-Gloss
- Specific gravity** : 1.41 ± 0.05
- Solid by volume** : 100 %
- Flash point** : 30 °C
- Film Thickness, Dry (microns)** : depend on surface condition
- Film Thickness, Wet (microns)** : depend on surface condition

- Practical coverage.** m^2 / Liter : 0.3 kg/m^2 @ 1 mm thickness or depend on surface condition
 m^2 / Gal : 0.3 kg/m^2 @ 1 mm thickness or depend on surface condition

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	5 hrs.	4 hrs.	3 hrs.
	Hard dry	8 hrs.	6 hrs.	5 hrs.
Full cure	Minimum	24 hrs.	24 hrs.	24 hrs.
	Maximum	24 hrs.	24 hrs.	24 hrs.
Recoat dry				
Potlife		80 mins	60 mins	40 mins

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

FILM PERFORMANCE

Properties	Test Method	Criteria	Results
Hardness (Shore D)	ASTM D 2240	68	Passed

APPLICATION

Mixing Ratio	Part A	Part B
By Weight	1	1
Packing (kg)	1	1

Application Method	Trowel
Diluted by	No Diluted
Applicator	Steel bladed trowel, Pin rake or Serrated hand trowel

- : Mix Part A and Part B, strictly follow mix ratio recommendations and stir for 2-3 minutes until the mixture is homogeneous after leave 5 minutes before application.
- : Thinner No. 31 for cleaning only

APPLICATION SYSTEM

Surface Preparation

Floor

- : 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 10%)
- : 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 10%).
- : For Floor Hardener or Surface glossy finish :
 - : Concrete surface preparation by using dust free captive blasting units, grinding equipment, sand blasting for increase adhesion of coating.
 - : Inspect the concrete for bug holes void, fin and other imperfections. Protrusions shall be ground smooth while voids shall be filled with Floorguard Putty or other suitable filler and polishing of surface with moltoprene disk.
 - : After cleaning, repair surface defects and remove deteriorated previous coatings. (Check moisture content must be less than 10%).
- : 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.

Before Recoat by Topcoat



Rev. 1 10/2017

Coating System

Concrete protective Coating

: Primer	Floorguard Primer	50 microns x 1 coat
	Penetrating Sealer (for Floor Hardener)	50 microns x 1 coat
: Undercoat	Floorguard Putty	1-2 coats follow up surface irregularities
: Topcoat	Floorguard 100 (for Interior)	50 microns x 2 coats or
	Floorguard PU 100 (for Exterior)	50 microns x 2 coats or
	Floorguard 1000 SL	1000 microns x 1 coat
: Primer	Floorguard MB Primer	1000 microns x 1 coat
: Undercoat	Floorguard Putty	1-2 coats follow up surface irregularities
: Topcoat	Floorguard 1000 SL	1000 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.

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 :
1 Gallon Set	1 Gallon	1 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.