



TECHNICAL DATA SHEET

GX 200 PURE POLYUREA BASECOAT

PRODUCT NAME: GX 200 PURE POLYUREA Basecoat

MANUFACTURER: Penntek Industrial Coatings

STREET ADDRESS: 7850 Lakville BLVD

CITY, STATE, ZIP: Lakeville, MN 55044

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PREPARED BY: Kyle Baynes

DATE REVISED: 6.18.21

DESCRIPTION

GX 200 is a 100% solids are a high performance, two-component VOC Compliant Polyurea primer/base coat system designed for use on concrete a Bubble-free films can be produced 10 mils thick. Working times are adjustable by selective additions to the resin blend. The moisture should be below 5.5% using a Tramex moisture meter in order to apply the basecoat.

RECOMMENDED USE

CONCRETE

ADVANTAGES

Penetrates and seals the surface, leaving a smooth, pinhole and bubble-free coating. Excellent adhesion to a variety of substrates. Good physical properties.

VERSATILITY

Working at different volume ratios offers a variety of stiffness and flexibility. Flexibility to adjust the cure profile to match customer processes with the adjustment of catalyst.

PACKAGING

15-GALLON KIT:

Two 5 Gallon of Part A & One 5 gallon of Part B

MIX RATIO 2A : 1B (TWO PART A TO ONE PART B)



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SURFACE PREPARATION

General: Surface must be properly prepared prior to application. This could entail shot blasting or grinding, scrubbing, high-pressure detergent washing, steam cleaning, or solvent wiping of the surface to remove dirt, oil, grease pollutants, and other contaminants. Allow the surface to thoroughly dry. The moisture of the substrate should be below 5.5% to apply the basecoat. Use a Tramex moisture meter to confirm. Once dry, remove loose or excess mortar or other material that may work to impair adhesion.

MIXING

To prepare the system for application, mix the appropriate volume of materials together for approximately 2 (two) minutes.

At this point, a cloudy liquid will result. Shortly thereafter, a slight exothermic will become noticeable and the mixture will increase in viscosity. The actual working time will depend on the resin blend selected, the mix ratio and the presence of any accelerator.

APPLICATION

GX 200 can be applied by phenolic resin core roller. GX 200 should be applied at a minimum film thickness of 5 mils. Intended for broadcast use only.

CURING

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 3-4 hours. Cure time will vary depending on temperature and humidity.

Allow 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic on to the finished surface.

Uncured GX 200 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. If more than 48 hours passes between coats, re-prime the surface.

Low temperature and/or low humidity extend the cure time.

STORAGE

The reaction of isocyanates Parts A & B with water, leads to the formation of insoluble urea's and carbon dioxide gas, which gas result in pressure buildup inside closed containers.

Therefore, extreme care must be taken to assure containers used remain dry. Containers that have become contaminated with moisture should not be subsequently sealed; otherwise, a hazardous increase in pressure may result.



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TECHNICAL CHARACTERISTICS

TENSILE STRENGTH: METHOD: ASTM D412	TYPICAL VALUE: 4200
ELONGATION METHOD: ASTM D412	TYPICAL VALUE: 205
TEAR STRENGTH (PLI) METHOD: ASTM D2240	TYPICAL VALUE: 518
FLEXIBILITY (1/8" MANDREL) METHOD: ASTM D1737	RESULT: Pass
IMPACT RESISTANCE METHOD: ASTM D2794	TYPICAL VALUE: Direct/Reverse, 250/285 inch pounds.
ADHESION METHOD: ASTM D4541	TYPICAL VALUE: >500 psi
Moisture METHOD: ASTM F2659	TYPICAL VALUE: > or = 5.5 %

PHYSICAL PROPERTIES

Resin Type	Polyurea	
Weight	Per Gallon	9.52 lbs.
	Per Liter	1.2 kg/l
Solids by Volume	100	
Volatile Organic Compounds	<0 g/l**"	
Mixing Ratio	2:1 (Part A to Part B)	
Induction Time	None required	
Pot Life	15-20 minutes	
Practical Coverage	150-350 sq.ft./gal.	
	<small>(Coverage rate can vary depending on the texture and porosity of the concrete)</small>	
Dry Times @72°F and 50% Relative Humidity	Recoat	2-12 hours
	Fully Cured	24 hours
Shelf Life	12 months	
Safety Information	See SDS	



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CHEMICAL

Acetic Acid 100%
Acetone
Ammonium Hydroxide 50%
Benzene
Brine saturated H2O
Chlorinated H2O
Clorox H2O
Diesel fuel
Gasoline
Gasoline/5% MTBE
Gasoline/5% Methanol
Hydrochloric Acid 20%
Hydrofluoric Acid 10%
Hydraulic fluid (oil)
Isopropyl Alcohol
Lactic Acid
MEK
Methanol
Methylene Chloride
Mineral Spirits
Motor Oil
MTBE
Muriatic Acid 10%
NaCl/ H2O 10%
Nitric Acid 20%
Phosphoric Acid 10%
Phosphoric Acid 50%
Potassium Hydroxide 10%
Potassium Hydroxide 20%
Propylene Carbonate
Skydrol
Sodium Hydroxide 25%
Sodium Hydroxide 50%
Sodium Hypchlorite 10%
Sodium Bicarbonate
Stearic Acid
Sugar/ H2O
Sulfuric Acid 10%
Sulfuric Acid >50%
Toluene
1, 1,1-Trichlorethane
Trisodium Phosphate
Vinegar/ H2O 5%
H2O
H2O 14 days at 82 C
Xylene

RESULT

C
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RC
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NR
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RC

Chemical Resistance: Chart Key

R=recommended/little or no visible damage RC=recommended conditional/some effect, swelling or discoloration

C=Conditional/Cracking-wash within one hour of spillage to avoid affects NR=Not recommended

Dis=discolorative