

## NP380 & Accelerator TECHNICAL DATA (Grout Coat For Grind & Polish)

**PRODUCT DESCRIPTION:** NP380 is a two component 100% (+/- 1%) solids epoxy seal coat that can be used as a grout coat for the purpose of improving the performance of concrete in the grind and polish process.

**NP380 Accelerator:** is a blend of amines and reactive salts developed specifically for the addition to NP380.

**RECOMMENDED FOR:** Recommended for improving concrete performance prior to the grinding and polishing of concrete.

**SOLIDS BY WEIGHT (380):** 100% (+/- 1%)

**SOLIDS BY WEIGHT (380 Accelerator):** 88% (+/- 2%)

**VOLATILE ORGANIC CONTENT (380):** Less than 2 g/l

**VOLATILE ORGANIC CONTENT (380 Accelerator):**  
120 g/l

**COLORS AVAILABLE:**

380: Clear- gardner color 2,

380 Accelerator is amber to red tint

**RECOMMENDED FILM THICKNESS:**

Varies by application

**COVERAGE PER GALLON:**

Dependent on concrete porosity

**PACKAGING INFORMATION:**

3 gallon kit (2.9 gallons net approximately)

**PACKAGING INFORMATION (380 Accelerator)**

½ Pint

**MIX RATIO:**

8.75 pounds (.95 gallons) part A to 4.30 pounds (.50 gallons) part B (volumes approx.)

**For 380 Accelerator:** Add ½ pint to a 1 ½ gallon kit of NP380

**SHELF LIFE:**

NP380: 1 year in unopened containers, 380

Accelerator is ½ year shelf life

**FINISH CHARACTERISTICS:** Gloss (>80 at 60 degrees @ glossmeter)

**FLEXURAL STRENGTH:** 8,300 psi @ ASTM D790

**ABRASION RESISTANCE:** Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 18 mg loss

**ADHESION:** 350 psi @ elcometer (concrete failure, no delamination)

**VISCOSITY:** Mixed= 500-1000 cps (typical)

**DOT CLASSIFICATIONS:**

Part A "not regulated"

Part B "AMINES, LIQUID, CORROSIVE, N.O.S., 8, UN2735, PGIII"

**HARDNESS:** Shore D= 80

**COMPRESSIVE STRENGTH:** 10,500 psi @ ASTM D695- 1/2" x 1/2" bars

**TENSILE STRENGTH:** 6,300 psi @ ASTM D638

**ULTIMATE ELONGATION:** 3.1%

**GARDNER VARIABLE IMPACTOR:** 50 inch pounds direct- passed

**CURE SCHEDULE (70 Degrees F) – W/Addition of 380 Accelerator**

Pot Life (150 gram mass)	15-20 minutes
Pot Life (1 ½ gallon volume)	5-15 minutes
Tack Free (dry to touch)	2.5 – 3.5 hours
Grind Capability	3-6 hours
Full Cure	2-5 days
Application Temperature: 50-90 degrees F with relative humidity below 85%	

**LIMITATIONS (NP380)**

The surface should be dry prior to the application of this product.

This product is intended for interior use only.

Always apply a test patch to determine the suitability before using.

Allow to completely dry before polishing.

Product may slightly darken the substrate.

Stain resistance and water repellency may not fully develop for 2-4 days.

Remove spills as soon as possible to limit staining possibilities.

Physical properties listed on this technical data sheet are typical values and not specifications.

See reverse side for application instructions.

See reverse side for limitations of our liability and warranty

**LIMITATIONS (NP380 Accelerator)**

This product, when added to NP380, is only intended to be used as a grout coat to strengthen weak concrete prior to the grind and polish process. It is not intended to be used as a coating.

Color stability may be affected by chemical exposure or certain types of lighting such as sodium vapor lights.

Colors may vary from batch to batch.

Substrate temperatures must be 5°F above dew point.

Mix only an amount that can be used in the short pot life period.

All new concrete must be cured for at least 30 days prior to application.

It is best to not expose this product to water until fully cured.

Physical properties are typical values and not specifications.

## MIXING AND APPLICATION INSTRUCTIONS: NP380 Grout Coat w/Accelerator

### **PRODUCT STORAGE:**

Store product at normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures or temperature fluctuations may cause crystallization.

### **SURFACE PREPARATION:**

Remove all dirt, foreign contaminants and oil. Make sure floor is completely dry.

### **PRODUCT MIXING:**

First, mix a 1 ½ gallon kit of the NP380. NP380 has a mix ratio of 8.75# part A to 4.30# part B. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free.

Add ½ pint of the NP380 accelerator and again remix. Transfer to another pail (the transfer pail) and again remix. Note: this product has a very short pot life and quantities mixed should be kept to an amount that can be used in the prescribed time.

### **PRODUCT APPLICATION:**

Apply the material to the concrete using a flat blade squeegee, tight to the floor leaving no excess on the surface. After the material is spread, back-roll with a roller to insure no excess is left on the surface. After it is cured, the grind and polish process can begin. Clean up uncured material with xylene or similar solvent.

### **NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

*We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.***

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