

# THE EUCLID CHEMICAL COMPANY

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# **EUCOLASTICII**

# TWO PART URETHANE SEALANT

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**EUCOLASTIC II** is a two part urethane sealant for sealing and protecting moving joints of all types.

### **PRIMARY APPLICATIONS**

- Concrete construction & control joints
- Precast concrete member
- Masonry units
- Window perimeters
- Interior and exterior applications

### FEATURES/BENEFITS

- Available in both gun grade (non-sag) and pourable for universal applications
- Ultraviolet stable for outdoor use
- Remains adhesively and cohesively bonded during temperature cyclic movement
- Passes accelerated weathering test for suitability in harsh environments

#### SPECIFICATIONS/COMPLIANCES

- EUCOLASTIC II (gun grade) meets Federal Specification TT-S-00227E, Type II, Class A. This product also meets industry standard ASTM C 920-86, Type M, Grade NS, Class 25.
- EUCOLASTIC II (pourable grade) meets Federal Specification TT-S-00227E, Type I, Class A. This product also meets industry standard ASTM C 920-86, Type M, Grade P, Class 25.

## PACKAGING/YIELD

EUCOLASTIC II (both gun grade and pourable grade) is a two part urethane product packaged in 2 gal (7.6 liter) kits which contain both the bulk urethane (EUCOLASTIC I) as well as the required hardener. One 2 gal (7.6 liter) bulk unit yields 462 in<sup>3</sup> (7571 cm<sup>3</sup>) of product.

#### TECHNICAL INFORMATION Typical Engineering Data

The following results were developed under laboratory

conultions.				
EUCOLASTIC II: (gun gi	rade)			
Physical		Specification		
Properties	Actual	Requirement		
Rheological properties				
@40°F(4°C)	No Flow	No Flow		
@122°È(50°C)	No Deformation	No Deformation		
Extrusion Rate	6 seconds	45 seconds max		
Shore A Hardness	35	15-50		
Elongation	350%	100/		
WeightLoss TackFreeTime	9% 24 hours	10% max 72 hours max		
Adhesion-in-Peel (<25% b		72 Hours max		
Concrete	18-25 PLI	>5PLI		
Aluminum	19-23 PLI	>5PLI		
Brick	18-23 PLI	>5PLI		
EUCOLASTIC II: (pourable grade)				
Physical	5	Specification		
Properties	Actual	Requirement		
Rheological properties				
@40°F(4°C) or higher	Self-Leveling	Self-Leveling		
Extrusion Rate	3 seconds	20 seconds max		
Hardness	30	25-50		
WeightLoss	5%	10% max		
Tack Free Time	20 hours	72 hours max		
Adhesion-in-peel (<25% bond loss) Concrete 15-18 PLI >5 PLI				
Concrete Aluminum	28-32 PLI	>5PLI >5PLI		
Granite	28-32 PLI	>5PL		
		>0FL		

EUCOLASTIC II will accept normal traffic in 48 hours if curing temperature is 70°F (21°C) and 50% relative humidity. Expect complete cure within two weeks.

**Shelf life** of bulk material is 1 year in original, unopened package. Shelf life of material in tubes is six months in original, unopened package.

#### Appearance

EUCOLASTIC II is available in the following colors: Gun Grade:

Standard: white, limestone and gray

Special Order\*: beige, bronze and black

Pourable Grade:

Standard: white, limestone and gray

Special Order\*: beige and black

\* May require two week lead time.



The following chemical resistance guide is applicable to both the gun and pourable grade.

both the guna	iu pourable grade	 Splash	1 &
Acids*	Concentration		
Acetic Acid	25%	OK	, OK
Butyric Acid	25%	OK	OK
Citric Acid	25%	OK	OK
Oxalic Acid	25%	OK	OK
Lactic Acid	25%	OK	OK
Hydrochloric /	Acid 40%	OK	OK
Hydrobromic	Acid 50%	OK	OK
Phosphoric A	cid 50%	OK	OK
Carbonic Acid	l Any	OK	OK
Sulfuric Acid	Max. 50%	OK	OK
Muriatic Acid	40%	OK	OK
Nitric Acid	5% Max.	OK	NO
Chromic Acid		OK	NO
Perchloric Ac	id 5% Max.	OK	NO
<u>Alkalis</u>			
Caustic Soda		OK	NO
Caustic Potas		OK	NO
Sodium Hydro		OK	NO
Potassium Hy		OK	NO
Calcium Hydr		OK	NO
Ammonium H	ydroxide10%	OK	NO
Solvents			
Benzene	100%	OK	softens/swells
Toluene	100%	OK	softens/swells
Xylene	100%	OK	softens/swells
Gasoline	100%	OK	softens/swells
Mineral Spirits		OK	softens/swells
PaintThinner	100%	OK	softens/swells
Lacquer Thinn		OK	softens/swells
Methylene Ch		OK	softens/swells
Ester Solvent		OK	softens/swells
Acetone	100%	OK	softens/swells
Methyl Alcoho		OK	softens/swells
Ethylene Glyc		OK	OK
Ethyl Alcohol	100%	OK	OK
Methyl Ethyl I		OK	OK
Miscellaneou			
Lubricating Oi		OK	OK
Diesel Fuel	100%	OK	OK
Neutral Salt S		OK	OK
Liquid Nitroge		OK	NO
Liquid Oxyger		NO	NO
Liquid Ammor	lia	NO	NO
Dry Fertilizer		NO	NO

\* This product is not designed for chemical resistance above normal room temperatures.

#### **DIRECTIONS FOR USE**

**Joint Design**-EUCOLASTIC II may be used in any joint designed in accordance with accepted architectural or engineering practice. Joint width should be 4 times the expected joint movement, but not less than 1/4" (6 mm)

**Joint Dimensions**-Width to depth ratios should be equal for joints up to 1/2" (13 mm) in width with 1/4" (6 mm) being the minimum width. Keep sealant depth at 1/2" (13 mm) on widths over 1/2" (13 mm).

**Surface Preparation**-New concrete must be a minimum of 28 days old. The joint must be clean and sound. All oil, dirt, debris, paint and any other material that could be a bond breaker must be removed. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

All joint facings must possess an open surface texture with all curing compounds and sealers removed.

**Priming-**EUCOLASTIC/NEO SEAL PRIMER should be used to prime the joint facing when the product will be used on unusually non porous surfaces (metal, granite, etc.) or unusual applications (underwater). The EUCOLASTIC/NEO SEAL PRIMER must be ordered separately. Estimated Coverage-Primer-2400 lineal feet per gallon per 1/2" of depth of double face joint (193 lineal meters per liter per 13 mm of depth of double face joint).

**Mixing-**EUCOLASTIC II is a two part product and requires mixing. Pour all of the prescribed hardener into the pail and mix with a mechanical mixer and prop for 5 minutes. Make sure that the sides of the can are scraped to assure that all of the sealant is catalyzed.

**Placement-**EUCOLASTIC II may easily be applied with conventional caulking equipment. Pourable and gungrade cartridges can be used with a standard caulking gun. Horizontal joints requiring large quantities of material may be dispensed directly from the pail or a can with a pour spout.

**Finishing-**Although not normally required, tooling should be done immediately when necessary. Water or solvent may be used if necessary.

**Curing-**EUCOLASTIC II requires no special curing instructions. The product will cure within 24 hours of placement @ 70°F (21°C). Lower temperatures will slow the curing rate.

#### **CLEAN-UP**

Tools, equipment and general clean-up can be done with EUCO SOLVENT, xylol or toluene.

#### **PRECAUTIONS/LIMITATIONS**

- Use only at temperatures above 40°F(4°C).
- Contact surfaces must be clean and dry.
- Proper joint design will affect performance.
- · No heavy traffic until the product has cured.

Form Eucolastic II-3.01

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