

## IsoMold CMR 8001 UV

IsoMold CMR 8001 UV Gray is a two component polyurethane molding system. IsoMold CMR 8001 UV Gray is mixed one-to-one by volume and cures at room temperature. IsoMold CMR 8001 UV Gray cures to a hard (shore A 80±2) rubber in 48 hours. IsoMold CMR 8001 UV Gray is used to make molds of detailed masters that contain some undercuts. It has excellent release characteristics to make molds for concrete stamp pads, sculpture reproductions, special effects and point-of-purchase displays.

### APPLICATIONS

- Concrete Stamp Pads
- Point of Purchase Displays
- Sculpture Reproductions
- Special Effects

### PRODUCT ADVANTAGES

- Convenient Mixing Ratio
- Excellent release characteristics
- Low shrinkage
- Modified to offer UV protection
- Picks up fine detail in molding/casting applications

\*Values given are not intended to be used in specific preparation

### Component Properties

Color - ISO	Colorless - pale yellow
Color - POL	Gray
Specific Gravity - 74°F, ISO	1.08
Specific Gravity - 74°F, POL	1.07
Mixed Viscosity - ASTM D-2196 - (74°F)	3600 cps
Viscosity - ASTM D-2196 - 74°F, ISO	4500 cps
Viscosity - ASTM D-2196 - 74°F, POL	1850 cps

### Reactivity Profile

Ratio by Weight - ISO:POL	48.7:51.3
Ratio by Volume - ISO:POL	1:1
POL Temperature	65 - 75 °F
ISO Processing Temperature	65 - 75 °F
Mix Time - by Hand	1 - 2 Minutes
Pot Life - 100g	8 Minutes
Gel Time - 100 gram sample, 74°F	20 Minutes
Demold Time	12 - 24 Hours
Initial Cure Time	48 - 72 Hours
Full Cure	7 Days

### Typical Physical Properties

Hardness - ASTM D2240 - Shore A	78 - 82 Shore A
Tear Strength - ASTM D624, Die C	280 pli
Trouser Tear - ASTM D624, Die T	50 pli
Tensile Modulus - ASTM D412	1700 psi
Tensile Modulus - ASTM D412 - 100%	740 psi
Tensile Modulus - ASTM D412 - 200%	1000 psi
Tensile Modulus - ASTM D412 - 300%	1200 psi
Tensile Strength - ASTM D412	1680 psi
Elongation - ASTM D412	480 %
Rebound, Bayshore % - ASTM D2632	45 %
Linear Shrinkage - ASTM D2566 - 2 weeks @ 140F	0.01 %
Compression Set - ASTM D395 - Method B, 22 hours @ 140°F	20 %
Compressive Strength - ASTM D695 - @ 10% Strain	20 psi

Compressive Strength - ASTM D695 - @ 20% Strain 110 psi

Compressive Strength - ASTM D695 - @ 30% Strain 320 psi

## RECOMMENDED HANDLING INSTRUCTIONS

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### STORAGE

Keep the IsoMold CMR 8001 UV Gray container tightly closed when not in use and store at temperatures between 50–100° F (10–37° C).

Do not expose the POL (Curative) or ISO (Prepolymer) to moisture. If moisture contaminates IsoMold CMR 8001 UV Gray it will not cure and/or cause foaming. If these storage requirements are met, any unopened IsoMold CMR 8001 UV Gray material carries a shelf life warranty of six months.

### SAFETY

-Refer to the product SDS for all relevant safety information.

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