

## COLPOLY 7167-8A

### Unsaturated Polyester Resin

#### Description:

- » Unsaturated polyester resin based on isophthalic acid and neopentyl glycol, modified with acrylics and dissolved in styrene.
- » Colpoly 7167-8A is preaccelerated.

#### Application:

- » Colpoly 7167-8A is designed for a wide variety of casting applications where resin combined with inorganic filler such as aluminium trihydrate (ATH) and cast.
- » Resin is especially versatile for applications such as Solid Surface where they provide strength and thermal shock.
- » Resin is also recommended where quartz filler is utilised to manufacture cast polymer sanitary ware, kitchen sinks and other architectural surfacing products.

#### Features and benefits:

- » Excellent thermal shock resistance.
- » Consistent cured matrix colour.
- » Fast cure and cure follow-through.

#### Physical characteristics of the liquid resin:

Property	Range	Method / According to standard
Appearance	Slightly hazy	
Acid value	10 - 20 mg KOH/g	MH1051 / ISO 2114
Density, 25 °C	1.11 - 1.13 kg/L	MH1028 / ISO 2811
Monomers content	34 - 38%	MH2034
Viscosity; 25 °C, #2/10 rpm	800 - 900 mPa·s	MH1009 / ISO 3219
Flash point	34 °C	DIN 51 755
Shelf life at 25 °C in darkness	6 months	

#### Curing characteristics at 25 °C:

Property	Range	Method / According to standard
Gel time	8 - 13 minutes	MH3021
Time from 25 °C to peak	16 - 25 minutes	100 g resin, 1.5% MEKP-50
Exothermic temperature (peak)	160 - 180 °C	

**Note:** The information contained herein is provided in good faith and is to the best of our knowledge accurate, but we assume no liability for its accuracy or completeness. Therefore, the buyer is advised to determine the suitability of this product for the intended use. We retain the right to make any changes according to technological progress or further developments. For safety information please refer to the current Material Safety Data Sheet.

**Edition:** February 2021

**Physical characteristics of cured nonreinforced base resin:**

Property	Range	Method / According to standard
Density, 20 °C	1.17 - 1.23 kg/L	ISO 1183
Barcol hardness	45 - 50	EN 59
Tensile strength	80 - 90 MPa	ISO R 527
Elongation at break	3.5 - 5.5%	ISO R 527
Flexural strength	130 - 150 MPa	ISO 178
E - modulus in tension	3000 - 3300 MPa	ISO R 527
Impact resistance	20 - 30 kJ/m <sup>2</sup>	ISO 179
Heat distortion temperature	80 - 90 °C	ISO 75 A
Glass transition temperature	115 - 125 °C	ISO 537

**Cure:**

- » It is recommended that gel time be checked in the customer's plant as age, temperature, humidity and catalyst will produce varied gel times.
- » The catalyst level should not exceed 2.5% or fall below 1.0% for proper cure at ambient temperature.
- » The product should not be used when temperature condition is below 18 °C.

**Handling and safety precautions:**

Colpoly 7167-8A is flammable liquid and should be kept away from naked flames. For further details, please see the relevant Safety Data Sheet.

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