

# Synolite™ 5750-A-3

## DCPD resin for Casting, Cultured marble, and Polymer concrete

Synolite™ 5750-A-3 is a DCPD resin that can be easily processed in casting operations. The low resin viscosity allows for obtaining high filler loadings.

The resin is often used behind a gelcoat in sanitary applications, as well as for industrial components in polymer concrete.

### Benefits

- Dimensional predictability through low resin shrinkage and high filler loading
- Short cycle times
- Cost efficiency associated with high filler loading

## Major Applications

Synolite™ 5750-A-3 resin is designed for general casting applications and can be used specifically for shower tray casting behind a gel coat or primed ABS capped acrylic.

Synolite™ 5750-A-3 is a resilient resin with controlled exotherm. It is characterized by its high filler acceptance and rapid cure rate.

## Product Specifications

Property	Value	Unit	TM
Solids content	63,5 - 66,5	%	TM 2033
Viscosity 23 °C, 100 s <sup>-1</sup>	170 - 190	mPa.s	TM 2013
Gel time 25 until 35 °C	8,5 - 9,5	min	TM 2625
Peak time	12,5 - 16,5	min	TM 2625
Peak temperature	120 - 140	°C	TM 2625

TM 2013: spindle Z2, speed 100 s<sup>-1</sup>, TM 2625: 1% Medium reactive Methyl Ethyl Ketone Peroxide (MEKP)

## Liquid

Property	Value	Unit	TM
Flash point	33	°C	TM 2800
Stability (no initiator, dark, 25°C)	3	month	

## Solid Unfilled

Property	Value	Unit	TM
Density 23 °C	1100	kg/m <sup>3</sup>	DIN 53479
Tensile strength	40	MPa	ISO 527-2
Tensile modulus	3.3	GPa	ISO 527-2
Elongation at break	1.5	%	ISO 527-2
Flexural strength	80	MPa	ISO 178
Flexural E-Modulus	3	GPa	ISO 178
HDT	82	°C	ASTM D648

Casting cured overnight at RT and post cured for 2 h at 90°C.

## Application Guidelines

Before use, the resin should be conditioned at a well-defined, application dependent temperature (usually 15°C minimum for a MEKP/ Cobalt cure). Stir the product before blending.

## Storage Guidelines

The resin should be stored indoors in a dry place at temperature tight and undamaged packaging.

The properties of the resin may change slightly during storage.

## Material Safety

A Material Safety Data Sheet of this product is available on request.

## Test Methods

Test methods (TM) referred to in the table(s) are available on request.

## ISO 9001:2015 Certified

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### Contact us for more information

We will help you to choose the right resin solution.

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