

CASTING RESIN

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Siddec Casting Resin is a low viscosity epoxy based resin with UV-resistance additive as UV+HALS absorbers. It has very good chemical and mechanical resistance, and is therefore suitable for deep casting of up to 50mm per pour.

PRODUCT BENEFITS

- Very low tendency to yellow in the case of UV irradiation
- Nonylphenol Free - Non-Toxic - VOC FREE
- Good water resistance after a short maturation period
- Low viscosity (As required in Casting, easily maleable and penetrating)
- 100% Solid, High Gloss, Odouless
- Up to 50mm Thick per pour
- Crystal Clear Transaprency
- Slow Curing

FOOD CONTACT

The Resin (comp. A) and Hardener (comp.B) are included in the positive list for coatings in drinking water (annex 1) of the German Guideline for Sanitary Assessment of Organic Coatings in Contact with Drinking Water (Coating Guideline) from the Federal Environmental Agency (Umweltbundesamt) and in Annex I of the COMMISSION REGULATION (EU) No. 10/2011 of 14 January 2011 relating to plastic materials and articles intended to come into contact with food.

CONDITIONS OF USE, SAFETY AND STORAGE

Materials should be stored in a dry, dark place. The hardener (Component B) retains its chemical properties for a period of at least 12 months. The resin (Component A) retains its chemical properties for a period of at least 24 months. Sindec provides its customers with a product-specific Technical Data Sheet (TDS) to cover potential health effects, information on safe handling, storage, use and disposal. Sindec strongly encourages its customers to consult the TDS of its products and other materials before use.

Please Note: These are typical properties only and should not be interpreted as specifications. Users will need to confirm the results by their own tests.

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TECHNICAL CHARACTERISTICS OF COMPONENT A (RESIN)

Properties	Nominal Value	Tests Method
EEW	180-199 g/eg	ASTM D1652
Viscosity (+25°C)	750-1150 mPs	ASTM D445
Colour (max.Gardner)	0-1	ASTM D1544
Density (+25°C)	1.10 g/cm ³	ASTM D4052

TECHNICAL CHARACTERISTICS OF COMPONENT B (HARDENER)

Properties	Nominal Value	Tests Method
Apearance	Clear	Visual
Colour (max.Gardner)	Max. 1	
Density	0,9 g/ml	ASTM D4052
Average Equivalent Weight of Amine Hydrogen	81	Calculated
Shelf Life (Months)	12	
Viscosity (+25°C)	720 mPs	ASTM D445

TECHNICAL CHARACTERISTICS OF THE MIXTURE BETWEEN A (RESIN) AND B (HARDENER)

Properties	Nominal Value
Mixing ratio A + B (by weight)	100:40
Apearance	Shining/Glossy
Shore D hardness	78
Working time at + 25 ° C	45-60 min
Curing time at + 25 ° C	48 hours
Curing time for maximum physical characteristics (hardness, heat resistance) at + 25 ° C	5-7 days
Maximum test volume for Low Exothermic Reaction	15L, layer thickness 5 cm

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