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TECHNICAL DATA SHEET

PRODUCT GROUP: CLEAR CASTING RESIN

PRODUCT CODE: 363-64877

PRODUCT INFORMATION: Clear Casting Resin is a medium viscosity, low reactivity, and pre-promoted unsaturated polyester resin. It has a long gel time and a low exotherm and cures to a water white colour with excellent clarity. This longer gel time and lower exotherm makes it suitable for larger castings.

SPECIFICATIONS:

Appearance:	Clear.
Viscosity at 25°C:	350cp /- 50 (Brookfield RVT)
Monomer Content:	60 /- 2%
Flash Point:	31°C (Closed Cup)
Gel Time, 100gm. mass @ 25°C. 1% MEKP NA-1:	10 - 20 minutes
Stability in the dark below 25°C:	6 months in sealed container.

APPLICATION: With its low cured colour and good transparency SHCP 2719 is used in casting applications where colour, or rather lack of colour, is important. Trophies, encapsulations and decorative items are its major areas of use. SHCP 2719 may be filled with various types of fillers or colored with various dyes and pigments. Care should be taken in the selection of these additives as some grades can lengthen the gel time quite appreciably. Catalyst levels with SHCP 2719 can be varied between 0.6 and 2.7% with the recommended level being between 0.75 and 1.7%, which gives the best-cured colour. Higher levels of catalyst can cause a yellow colour in the resin on exotherm, especially if added when the resin temperature is 25°C or above. Lower temperatures may alleviate this effect, but will certainly slow down the cure rate. Lower catalyst levels will result in under cured resin, which may consequently darken on ageing. If encapsulating flowers or insects, then they should be dried thoroughly first. This may be accomplished in a desiccator or by soaking in solvents of gradually increasing dehydrating power. Metal items which may affect the gel time and cure, e.g. brass or bronze pieces, should be given a thin coating of faster resin, e.g. Surfboard Laminating Resin, to seal their surface before encapsulating them in SHCP 2719.

HAZARD CLASSIFICATION:

Chemical Composition:	A solution of unsaturated polyester resin in styrene monomer.
Class:	3.2 Flammable Liquid HFP.
Label:	3.
Pack Code:	II
UN Number:	1866
Hazchem Code:	3 [Y]
NFPA Code:	Health 2, Flammability 3,
Reactivity 2.	(0= Low Hazard 4= High Hazard)

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