



SINGAPORE HIGHPOLYMER CHEMICAL PRODUCTS PTE LTD

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SHCP 2720B

A. DESCRIPTION

SHCP 2720B is a low peak exothermic unsaturated polyester resin for making artificial marble and FRP products. It is a waxed and promoted. SHCP 2719 CM exhibits good transparency, light color and high glossiness. This resin is most suitable for use in making; High Quality Artificial Marble, Onyx Marble, Clear Transparent Casting as well as being used in the process of Solid Surfacing.

The viscosity of SHCP 2720B is rather low in order to facilitate good wet out, fast bubble release and to accept high filler loading, thus assuring an easy processing. It is ideal for making a variety of casting objects such as flooring, bathroom bowls, table tops, bath units, artificial marble walls, R.T.M. and the like onyx marble.

SHCP 2720B can be used for clear casting as it has low shrinkage, a high reflective index, slow yellowing effect over time.

B. SPECIFICATIONS

Liquid 2720B polyester resin has the following characteristics:

Appearance	Clear
Viscosity at 30°C (Brookfield LVT, spindle 2, 30rpm)	4 – 8 ps
Geltime at 30°C	5 – 10 minutes
Peak Exothermic Temperature	110°C – 125°C
Stability in the Dark below 25°C	4 months

Above gelation characteristics determined using 1% v/w of MEKP catalyst (Butanox M-50) on 20g of resin.

C. USAGE

SHCP 2720B polyester laminating resin performs best when it is completely cured. To do so, a proper combination of catalyst and accelerator must be used at room temperature for a sufficient period of time. Generally, 1 percent of catalyst (BUTONOX M-50 MEKP) is used. Generally, 1 to 1.5 percent of catalyst together with 0.5 percent accelerator (CM) is needed.

Both quantities can be adjusted for a shorter or longer gel time by increasing or decreasing catalyst, accelerator, or both. As a rule, however, the amount of catalyst used should not exceed 2% and must not be less than 0.5% while that of accelerator should range between 0.4% and 1%. Be sure to measure accurately.

Accelerator must be completely mixed into the resin before catalyst is added in order to avoid a direct blending which due to a violent reaction may result in an **EXPLOSION**.

Since the viscosity increases as the storage period of resin lengthens, Styrene Monomer can be added to lower it to a desired level. However, excess of Styrene Monomer added will affect the quality of resin.

However owing to difficulties in presenting information applicable to all situations, no warranty is expressed or implied and users are recommended to carry out their own tests to determine the applicability of the above information and the suitability of SHCP resin for their particular requirements.

D. STORAGE

SHCP polyester resin will remain stable if stored in the dark and at temperatures below 25°C. Their stability however deteriorates markedly at higher temperatures, especially when they are directly exposed to sunlight. Hence they should be kept in a cool, dark place. It is advisable to finish it within three months.

F. PACKING

SHCP polyester resin is packed in steel drums of standard size, containing 225 kilos in net weight.

G. ENQUIRIES

SHCP is specialized in manufacture of different types of unsaturated polyester resin for a wide range of applications. It can make in accordance with customers' specifications to meet their needs. Technical services are also provided to its customers. For any inquiries, please contact Sales Manager, Singapore Highpolymer Chemical Products Pte Ltd.