

DERAKANE MOMENTUM 411T-35

DESCRIPTION

The resin DERAKANE MOMENTUM 411T-35 is a Bisphenol A Epoxy Vinyl Ester type, the resin is thixotropic and pre-accelerated in a summer version. Consequently this resin exhibits the elevated mechanical properties and the excellent chemical resistance of the Epoxy Vinyl Ester Resins. The ease of work is one of the main features of the resin DERAKANE MOMENTUM 411T-35; it impregnates rapidly the reinforcement fibres and resists to sag if applied to vertical surfaces. Its exceptional "wettability" combined to a very low colour makes the roll-out faster and easier to perform. The reactivity of the resin was adapted to the typical summer work-shop temperatures.

The gel-time of the resin DERAKANE MOMENTUM 411T-35 is around 35 minutes at 23°C.

APPLICATIONS AND FABRICATION TECHNIQUES

The resin DERAKANE MOMENTUM 411T-35 is designed for ease of fabrication using hand-lay up, spray-up and other similar processes.

It is very well suited for the manufacture of spas, swimming pool liners, in marine and other applications requiring the superior blister resistance of an epoxy vinyl ester resin. It is also recommended for the construction of load bearing or mechanically demanding structures.

It can also be used for corrosion resistant equipment, the thixotropy and pre-acceleration making the use on the field easier (*).

(* As a general rule, thixotroped (or otherwise filled) resins should not be used in the corrosion barrier without consultation of the resin manufacturer (in contact with alkaline media or sodium hypochlorite solutions, the use of a thixotropic resin is not recommended).

PROPERTIES

Resin DERAKANE MOMENTUM 411T-35 typical liquid resin properties.

| Properties | Value |
|---|-------------|
| Gel-Time at 23°C, minutes (1) | 35 +/-3 |
| Viscosity at 23°C at 10 rpm, mPa.s (2) | 1425 +/-125 |
| Viscosity at 23°C at 100 rpm, mPa.s (2) | 700 +/-50 |
| Thixotropic Index (3) | > 2,2 |
| Flash Point, °C | 32 |
| Styrene content, % | < 50 |
| Shelf Life, months (4) | 8 |

Typical property values only, not to be construed as specifications.

(1) Gel Time measured on 100g, after addition of 1.5 g of peroxide of the type MEKP

(2) Viscosity measured with Brookfield RVT, spindle 3

(3) Thixotropic Index : ratio between viscosities at 5 and 50 rpm

(4) Storage temperature below 25°C

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PROVISIONAL TECHNICAL DATA SHEET**Resin DERAKANE MOMENTUM 411T-35 typical properties of resin clear casting.**

| Propriétés | Valeur |
|--|---------------|
| Tensile Strength, MPa | 86 |
| Tensile Modulus, GPa | 3.2 |
| Tensile Elongation, Yield, % | 5.0 – 6.0 |
| Flexural Strength, MPa | 150 |
| Flexural Modulus, GPa | 3.4 |
| Density | 1.12 |
| Heat Distorsion Temperature, °C, at 1.82 MPA | 105 |
| Barcol Hardness (modèle GYZJ 934-1) | 35 |

Typical property values only, not to be construed as specifications.

USE

It is recommended to homogenize the resin before use.

The resin DERAKANE MOMENTUM 411T-35 is pre-accelerated; it cures after addition of 1 to 2% of peroxide of the MEKP type.

The resin colour changes immediately after addition of the MEKP, from violet to greenish brown. It is essential to thoroughly mix the peroxide into the resin before application.

STORAGE

Store at temperatures below 25°C. Storage life decreases with increasing storage temperature. Avoid exposure to heat sources such as direct sunlight or steam pipes. To avoid contamination of product with water, do not store outdoors. Keep sealed to prevent moisture pick-up and monomer loss. Rotate stock.

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