Technical Data Sheet

Product Name: Eco-friendly Liquid Chain Extender / Liquid Crosslinker

Typical Properties：

Model	Appearance	Chroma Fe-Co (25℃)	Density g/cm3 (25℃)	Viscosity mPa.s (25℃)	Dosage
TDMA-G90	Brown transparent liquid	≤16	1.036	11000 ± 2000	80% of MOCA

Solubility： Easily soluble in various polyether polyols / chlorinated plasticizers.

Environmental protection:
It does not contain restricted heavy metals, o-benzene plasticizers and other environmentally restricted substances, does not contain MOCA components, and has no DMTDA (E300) odor. The plastic runway resin synthesized with this product complies with relevant environmental regulations.

Applications：
It is widely used in polyurethane resin of plastic runway and sport track.

Features & Advantage:
TDMA-G90 is a new environmentally friendly liquid chain extender suitable for plastic runways, which enhances the hardness of sport track materials, balances toughness, deformation, and impact absorption energy, and shortens the post curing time in the process. It has the following characteristics:

- **The product is non-toxic and odorless.** It does not contain MOCA ingredients and has no special odor of DMTDA (E300), which complies with stringent environmental regulations.
- **It is liquid at normal temperature and easy to use.** It can be well miscible with other raw materials without heating, which is convenient to use. Although the viscosity increases at low temperature, it is still liquid and generally will not crystallize.
- **Moderate activity, convenient for construction.** It has lower activity than DMTDA (E300) but higher activity than MOCA. When used for plastic sport track, the construction time can be as long as more than 40 minutes, and it can be cured in 12 hours, which is convenient for construction.
- **Excellent physical properties, improved hardness, tensile strength and other mechanical indicators.** After properly adjusting the formula, the physical properties are equivalent to those of MOCA and DMTDA.
- **The dosage is low and the cost advantage is obvious.** It is one of the most cost-effective products in the market at present, and its price is close to MOCA, less than half of DMTDA (E300). In most of the formulas of MOCA currently used, use TDMA-G90 to replace MOCA with dosage of 70%-80% of MOCA amount, the performance of the product still meets the standard after curing.

User's Guide:

- For two-component runway materials, the operation process is the same as MOCA, and it is more convenient to use in liquid state. If the formula is synthesized by part of polyether polyol M=1000 or MN3050 and isocyanate (such as MDI50, TDI80), the performance will be better.

Handling & Storage:
Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain.

Package: 25kg/200kg in HDPE drum

Shelf Life: The unopened shelf life is 24 months from the date of manufacture. After the shelf life, it can still be used normally after passing the test. Please pay attention to seal before store.

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