

WACKER® E 905

Silane-Modified Polymers

WACKER® E 905 is one kind of transparent and low viscosity fluid.

Properties

WACKER® E 905 is mainly a polyether-based silane-terminated polymer suitable as a binder in moisture curing formulations. It is a clear liquid with a slight but characteristic odor and differs to conventional silylated polymers due to its high reactivity. This is a direct consequence of the trimethoxysilyl group attached to the organic backbone. It hydrolyzes in the presence of moisture to finally form a stable siloxane network initiated by heavy metal or strong amine catalysis.

Formulations are characterized by the following advantages:

- Super low viscosity
- rapid curing
- good mechanics
- very good elastic recovery and high elasticity
- plasticizer free if desirable
- broad adhesion profile

Applications

- Silane Modified Polymers

Application details

WACKER® E 905 dissolves readily in standard organic solvents. It is virtually insoluble in aqueous media, and reacts slowly releasing methanol and forming a resinous deposit. Due to its reactive terminal groups WACKER® E 905 forms a skin following air exposure after several days. However, its reactivity with water or atmospheric humidity must be taken into account during storage and processing, since the material will slowly start to condense. WACKER® E 905 can be formulated by conventional methods and mixing processes. The formulation composition depends on the required property profile. WACKER® E 905 can be formulated with a variety of fillers at high addition levels. The range starts with oxides, such as aluminum trihydroxide, quartz powders or pyrogenic silicas, and extends to coated and uncoated chalks. Water scavengers can be added to stabilize the formulations against premature curing as this is moisture-curing technology. Therefore exclusion of moisture during compounding and storage is necessary. GENIOSIL® XL 10 are particularly suitable scavengers.

Packaging and storage

Packaging

Information on available container sizes is obtainable from WACKER subsidiaries.

Storage

The 'Best use before end' date of each batch is shown on the product label. Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

QR Code WACKER® E 905



For technical, quality or product safety questions, please contact:

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