

WACKER® CATALYST EP

Catalysts

WACKER® CATALYST EP is a highly-active platinum complex used for the thermal curing of addition-crosslinking, solvent-based and solventless silicones.

Properties

- Very high and constant catalyst activity - Rapid curing of addition-crosslinking silicone systems - Miscible with silicones in all proportions - Solventless - Apart from platinum, WACKER® CATALYST EP does not contain any heavy metals

Application details

WACKER® CATALYST EP must be added to the mixture of DEHESIVE®, CRA® modifier and Crosslinker. During addition, stirring should be as rapid as possible so as to avoid local over-concentrations of the platinum catalyst, which cause premature curing indicated by formation of gel particles ranging in color from brown to black. It is also important that the platinum catalyst always be added as the last component to the homogeneous mixture of polymer and Crosslinker. Suitable materials for mixing vessels, stirrers, pumps, tubes, filters, etc. are stainless steel, polyethylene, polypropylene, Teflon and other fluorine polymers, as well as products coated or lined with these materials. If good catalyst activity is to be maintained, it is essential to avoid deactivation of the platinum catalyst. This may occur as a result of contact with the abovementioned equipment, with the ambient air, with unsuitable rolls in the coating equipment, with the customer's additives, or even with the substrate to be coated. If heavy metals (e.g. lead, copper, zinc, iron, chromium or tin) or sulfurous, nitrogenous or phosphorous organic compounds are present in any of the above materials, curing may be impaired or even prevented. WACKER® CATALYST EP is dissolved in a reactive silicone polymer, which is incorporated into the cured rubber during the curing process. Combined with DEHESIVE® silicone polymers, it is excellently suited for providing various substrates, such as paper and films with a silicone coating that exhibits release properties towards tacky products used in technical, health, hygiene and food sectors.

Packaging and storage

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. Prolonged exposure to air and light, especially UV light, may result in an increased brown discoloration, or development of turbidity. Since the colloidal platinum formed is also catalytically active, it is safe to assume that a brown discoloration and slight turbidity will not have a detrimental effect on the performance of the product.

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® CATALYST EP



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

Wacker Chemie AG, Hanns-Seidel-Platz 4, 81737 Munich, Germany
info@wacker.com, www.wacker.com

The data presented in this medium are in accordance with the present state of our knowledge but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this medium should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The information provided by us does not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the product for a particular purpose.