

Cold Mounting Material

Revision: 6th of August, 2020

PRODUCT NAME	ITEM NO.	SUPPLEMENTARY DETAILS
Cold Mounting Material KEM 35		
Powder	92002473 92002474 92002512 92005650	1 kg 5 kg 10 kg sample
Liquid	92002475 92002476 92002477 92005649	500 ml 1 l 2.5 l sample
Set	95012022	Consisting of 1 kg powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoons

Description	Cold mounting material for embedding materialographic specimens.
Material	<p>Powder: No hazardous substances are present in amounts that surpass the threshold values for mandatory identification. Nevertheless, the product has to be classified as GHS08 according to CLP.</p> <p>Liquid: Methyl methacrylate 15-20%, styrene 5-10%, 2-(2-methoxyethoxy)ethanol <2.5 %, N,N-dimethyl-p-toluidine < 2.5 %, 1,4 - dihydroxybenzene < 1.0 %</p> <p>All further additives are contained in amounts below the threshold values for mandatory identification and can be considered nonhazardous additives.</p>
Properties	<p>The system consist of a solid and a liquid component.</p> <p>Powder: homogeneous slightly green powder, characteristic smell</p> <p>Liquid: low viscosity, colorless liquid, characteristic acrylic smell, flash point 99 °C</p>
Application	<p>The product is a self-curing 2-component-polymer for cold mounting samples. The product shows a low gap formation and yields prepared samples with high edge retention. It is well suited for mounting samples of low to very high hardness. It is applicable for the analysis of marginalized layers and coatings. Both components are mixed in the volumetric ratio 1.5 (powder): 1 (liquid). The components must be mixed for at least 30 s until a homogeneous suspension is obtained. After the sample is placed in the mold (POM, PTFE, PE, PP) the mounting material is cast. It is important to prevent foaming and bubble formation. A curing under enhanced pressure (up to 2.5 bar) is possible. The cured and ground sample should be of pale green color with a homogeneous surface finish.</p> <p>Curing Temperature: 85-100 °C, pot-life: 3-4 min, curing time; 1-15 min, Hardness; 87 Shore D</p>
Health and safety	<p>The product should be used on a well vented working place, ideally a suitable fume-cupboard is used. Inhalative exposition has to be minimized. Protective clothing, protective gloves (Butyl rubber with suitable penetration time) and tightly sealed eye protection have to be worn. In case of dermal exposition, wash thoroughly with water and soap. In the case of fires CO and VOCs are released. A self-contained respiratory device has to be worn. Water-spray, extinguishing powders and CO₂ are suitable extinguishing agents. Further information regarding first aid measures and safety instructions can be taken from the products SDSs.</p>

Environmental precautions	The product is classified as water toxicity class 1. The product must be kept away from surface-/phreatic waters and sewage systems. The cured mounting material can be disposed alongside domestic waste. The components have to be disposed as hazardous waste, according to local legislation.
Storage	The Powder is classified as storage class 11, while the liquid is assigned to storage class 3 (TGRS 510). The product should be stored in a dark, cool (3-30°C) and dry environment. The containers have to be kept tightly sealed. Larger amounts of liquid have to be secured against electrostatic charging. Further storage related information can be taken from the products SDSs.