

Revision: 12.07.2024

PRODUCT NAME	ITEM NO.	SUPPLEMENTARY DETAILS
Cold mounting resin KEM 15 PLUS		
KEM 15 PLUS liquid	95011629	500 ml
	95011631	5 l
	95012448	Muster
KEM 15 PLUS powder	95011628	1 kg
	95011630	10 kg
	95012448	Muster
Set	95012019	1 kg Powder, 500 ml liquid, 40 mixing cups, 40 mixing sticks, 2 dosing spoon

Description	Cold mounting resin for gap-free mounting of materialographic samples. The system consists of a powdery and a liquid component.
Material	<p>Powder: Hazardous substances are not contained in quantities subject to tendering. The product must still be classified as GHS08 (CLP).</p> <p>Liquid:</p> <p>Styrene (CAS: 100-42-5) 90 - < 100 %</p> <p>Methylmethacrylate (CAS: 80-62-6) 7 - < 10 %</p> <p>Butanedioldimethacrylate (CAS: 2082-81-7) 1 - < 3 %</p> <p>Methacrylic acid (CAS: 79-41-4) 1 - < 3 %</p> <p>N,N-Dimethylaniline (CAS: 121-69-7) 0,5 - < 1 %</p> <p>Tetramethylammoniumchloride (CAS: 75-57-0) 0,2 - < 0,3 %</p> <p>1,4-Dihydroxybenzol (CAS: 123-31-9) < 0,1 %</p> <p>Further additives do not surpass the threshold values for mandatory identification and can be considered non-hazardous.</p>
Properties	Powder: homogeneous, blue powder, characteristic intrinsic odor Liquid: viscous, green liquid, characteristic acrylic odor, flash point 15°C, reacts violently with strong oxidizing agents and burning-promoting substances.

<p>Application</p>	<p>The product is a chemically curing, two-component polymer mounting material. The product shows low gap formation and delivers prepared samples with high edge sharpness. It is well suited for the analysis of boundary layers and coatings. Both components are mixed in a volumetric ratio of 1.5 (powder):1 (liquid). The components must be mixed for at least 30 seconds until a homogeneous suspension is obtained. After the sample has been placed in the mounting mold (POM, PTFE, PE, PP), KEM 15 plus is poured. Foaming and blistering should be prevented. Curing is also possible under increased pressure (up to 2.5 bar). The hardened and ground mounted sample should have a light blue colour and a homogeneous surface structure. Curing temperature: 100-130°C, Curing time: 25 min, Hardness: 85 Shore D</p>
<p>Health and safety</p>	<p>The product should only be used in a well-ventilated workplace, ideally a suitable fume hood is used. Inhalation exposure must be minimized. Protective clothing, protective gloves (butyl rubber with a suitable breakthrough time) and tight-fitting safety goggles must be worn. In the event of a fire, NOx, Co and VOCs are released as toxic decomposition products. In this case, self-contained breathing apparatus must be worn. CO2, water spray and extinguishing powder are suitable extinguishing agents. In case of skin contact, the affected area must be washed thoroughly with soap and water. Further first aid measures and safety instructions can be found in the SDS of the product.</p>
<p>Environmental precautions</p>	<p>The product is classified WGK 3. In particular, the liquid must be kept away from sewers, surface and groundwater. Small quantities of cured KEM 15 plus can be disposed of with household waste. Powder and liquid are hazardous waste and must be collected and disposed of separately</p>
<p>Storage</p>	<p>The powder is assigned to storage class 6.1 C, whereas the liquid belongs to storage class 3 (TGRS 510). Both components should be stored in a cool (3-30°C) and dry place in tightly closed containers. It is recommended to store the liquid at a temperature of 5-10°C. The product must be kept out of direct sunlight and should not be used in the presence of strong oxidizing agents (e.g. org. peroxides, nitric acid), flammable substances (e.g. alcohols, fuels) and ignition sources (e.g. flying sparks and high temperatures). Large quantities (liquid) should be secured against antistatic charging. For more information, please refer to the product's SDS.</p>