## **Technical Instruction Sheet**

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Characteristics:	AKEMI® UV-Fillers Thassos (extra liquid, liquid, knife grade) are stone filler based on unsaturated polyester resins dissolved in styrene, hardening by u violet radiation. The products are distinguished by the following qualities:		
	<ul> <li>neutral colour (transparent – milky white)</li> <li>after product has cured there will be hardly any yellowing effect therefore it is recommended for white and very light stones / reconstituted stones</li> <li>1-component product for thin layers (&lt; 5 mm)</li> <li>very rapid surface drying (already after 20-30 seconds of radiation)</li> <li>good penetration into small fissures, sandy and clayey areas</li> <li>variable application due to different consistencies</li> <li>hardening is also possible by sunlight</li> </ul>		
Field of Application:	UV-Fillers Thassos are mainly used for working natural / reconstituted stone slabs in polishing line plants for filling small holes, fissures and strengthening porous areas without having to add a hardener component. Due to various con- sistencies available (knife grade, liquid, extra liquid) everyone can choose the most suitable quality. UV-Fillers Thassos contain a special additive which al- lows thicker layers or cavernous holes to harden, by adding AKEMI® UV Hard- ener		
	T liquid. Yet, hardening time is still more than 6 - 8 hours at 20 degrees Celsius when adding 0.5 % of UV Hardener T liquid.		
Technical Conditions:	<ul> <li>Special UV light sources with a wavelength of 365-420 mm are necessary for the hardening process:</li> <li>1. Fluorescent tubes <ul> <li>Philips TL/10R (40-100 W, different sizes)</li> <li>Osram UVA (40-80 W, different sizes)</li> </ul> </li> <li>2. UV spots (combination of UV- and IR-radiation) <ul> <li>Philips MLU (300 W)</li> </ul> </li> <li>3. Metal halide lamps <ul> <li>Hönle Uvaspot 400 T</li> <li>Osram Ultra-Vitalux (300 W)</li> </ul> </li> </ul>		
	The best result is achieved when using metal halide lamps or UV-spots, their effect in depth and speed of hardening is better than that of fluorescent tubes.		
Instructions for Use:	<ol> <li>The surface to be treated must be clean, dry and free from dust.</li> <li>To fill bigger holes or carvenous holes, 0.5 % of AKEMI® UV Hardener T liquid should be added.</li> <li>Apply the required quantity of UV-fillers Thassos with a spatula.</li> <li>Expose the filled areas to UV-radiation:         <ul> <li>a) Fluorescent tubes</li> <li>for at least</li> <li>for at least</li></ul></li></ol>		

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Special Hints:	<ul> <li>Use AKEMI® Liquid Glove to protect your hands.</li> <li>When filling thicker layers or cavernous holes (&gt; 5 mm) without adding UV Hardener T liquid there will be no hardening at the bottom of the layer which causes a permanent smell of styrene, poor adhesion and discolouring to green.</li> <li>Poor adhesion on humid surfaces</li> <li>Insufficient radiation time will cause insufficient hardening and no stability. During grinding or polishing procedure the insufficient hardened UV Fillers Thassos will be chipped off. Furthermore a discolouring to green is possible</li> <li>Once hardened, solvents can no longer remove the filler. Removal is only possible mechanically or by higher temperatures (&gt; 200°C).</li> <li>Being worked properly, the hardened filler is being recognised as not injurious to health.</li> </ul>			
Safety Measures:	see EC Safety Data Sheet			
Technical Data:	Colours:	UV-Filler Thassos extra liquid UV-Filler Thassos liquid UV-Filler Thassos L-Special	transparent-milky white transparent-milky white transparent-milky white	
	Density:	1.13 -1.51 g/cm <sup>3</sup>		
	Working tir			
	a) without I	UV Hardener T liquid at 20°C:	at room temperature unlimited (without radiation)	
	b) 0.5 % UV Hardener T liquid at 20°C:		approx. 6 - 8 hrs (without radiation)	
	Shelf life: 1 year approx. if stored in cool p tightly closed original container.		ed in cool place free from frost in its container.	
Notice:	The above information is based on the latest stage of technical progress. It is to be considered as a non-binding hint and does not release the user from a per- formance test, since application, processing and environmental influences are beyond our realm of control.			