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## Technical Datasheet UniQuartz AC\_InduMix

Highly decorative, functional, abrasion resistant Silica Quartz sand granulate. UniQuartz AC\_InduMix is coloured with UV stable polyurethane. It is suitable for functional and decorative purposes like industrial floorings and wall finishings.

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### Product description:

UniQuartz AC\_InduMix is a dry, coloured silica quartz sand granulate for use with polymers. It is coloured in an industrial process with an excellent high grade UV resistant Polyurethane binder, ready and easy to work with. You can scatter it on polymer binders like epoxy, PMMA or polyurethane resin systems. The product combines unique UV resistance colours with excellent technical, chemical and mechanical properties. It meets the highest demands which can be expected in case of reproduction.

#### General information and description

For the manufacturing of our products only the high grade organic and non-organic pigments are used. This combined with the most suitable binder for your application guarantees the highest quality and best functionality.

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### Product features / benefits:

- **Excellent abrasion resistance against heavy loads**
  - **Coloured with 100% UV resistant Polyurethane**
  - **Highly decorative appearance**
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### Applications:

UniQuartz AC\_InduMix can be used as an anti-skidding layer. It can be scattered on a fresh polymer layer. The layer can be mechanically troweled and compressed by trowel after scattering what gives a smoother top surface, the so-called "compact" system. The ultra high quality standard of the final product depends on formulating of the whole system, application procedures, the environment of usage and the application itself.

#### For example,

- Industrial flooring in factory buildings, warehouses, hangars and workshops.
  - Highly decorative acrylic in- and outdoor wall finishes.
  - Suitable for use with Epoxy, PMMA, acrylic and Polyurethane binders.
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**Product data:**

**Name:** -UniQuartz AC\_InduMix  
**HS code :** -25.05.10.  
**EINECS-nr.:** -238-878-4  
**CAS-nr.:** -14808-60-7  
**Colours:** - Standard color collection with 28 traditional mixcolours. .  
 See colour card for available colours  
 Other colours are available on request.

**Packing:** -25 kg Polyethylen PE ventile bag on one-way pallet wrapped with stretch foil  
 -1000 / 1250 kg one way big bags

**Storage conditions:** -Storage in the original sealed bags in dry place. Long-term exposure to sunlight will damage the packing.

**Picture:****Technical data:****Polymer and pigments**

The CfQS two components polyurethane colouring system is fully UV stable and has a good resistance against abrasive loads. It has better specifications than for example epoxy coloured sands. It is suitable for use in industrial floorings, acrylic wall finishings and decorative sands. Everywhere, where normally later a topcoat will be applied.

System CQE is available on special request for most of our products as a feature. It has an excellent abrasion resistance against mechanical loads.

UV stability of our polyurethane color coating when applied on the granulate is full.

UV stability is tested. Compared are our polymer system to reference products that are based on Polyurethane and Epoxy. Executed test was an 168 hour UV test with wave length 313 Nm. Special datasheet for these test results is available on request.

Polyurethane systems CQE / CQS and CfQS	
UV non lighted $\Delta E=$	7,47
UV lighted $\Delta E=$	13,61


UV stability of used pigments

The UniQuartz AC InduMix colour collection is specially developed for indoor applications. The pigments used have limited atmospheric circumstances resistance.

For outdoor applications some specific color mixes can meet the requirements of weather conditions. These are on request.



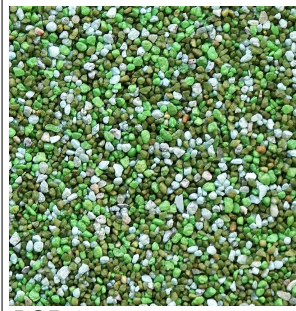
**Technical data:**

<b>Technical specifications:</b>																					
Hardness (Mohs)	7																				
Chemical content of Granulation, this analysis is a average guideline. It is taken from the CfQS 0,5-1,0 mm sand, other granulations can have slightly different values.	<table> <tr><td>SiO<sup>2</sup></td><td>: 96,88%</td></tr> <tr><td>AL<sup>2</sup>O<sup>3</sup></td><td>: 1,928%</td></tr> <tr><td>Fe<sup>2</sup>O<sup>3</sup></td><td>: 0,0975%</td></tr> <tr><td>TiO<sup>2</sup></td><td>: 0,01242%</td></tr> <tr><td>CaO</td><td>: 0,0521%</td></tr> <tr><td>MgO</td><td>: &lt;0,10%</td></tr> <tr><td>MnO</td><td>: 0,00254%</td></tr> <tr><td>K<sup>2</sup>O</td><td>: 0,892%</td></tr> <tr><td>Na<sup>2</sup>O</td><td>: &lt;40%</td></tr> <tr><td>So<sup>3</sup></td><td>: &lt;0,020%</td></tr> </table>	SiO <sup>2</sup>	: 96,88%	AL <sup>2</sup> O <sup>3</sup>	: 1,928%	Fe <sup>2</sup> O <sup>3</sup>	: 0,0975%	TiO <sup>2</sup>	: 0,01242%	CaO	: 0,0521%	MgO	: <0,10%	MnO	: 0,00254%	K <sup>2</sup> O	: 0,892%	Na <sup>2</sup> O	: <40%	So <sup>3</sup>	: <0,020%
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Moisture	< 0,1 %																				
Bulk density	1,55 kg/dm <sup>3</sup>																				
Density	2,65 g/cm <sup>3</sup> (DIN ISO 787/10A)																				
Sieving Curve	<p>CfQS 0,4-0,9 mm  CfQS G 0,8-1,2 mm  CfQS 1,0-1,6 mm  CfQS 1,0-2,2 mm  other granulations on request like  CfQS 0,1-0,5 mm  CfQS 0,5-1,0 mm  CfQS 1,6-2,2 mm  CfQS 2,0-3,0 mm</p>																				
Maximum deviation of the screening curve	15.00%																				
Polish Value (PSV) DIN EN 1097-8	PSV practical av. 47 / Category by norm PSV =47																				
Frost resistance value	F1																				
Picture of natural product																					



# UniQuartz AC InduMix

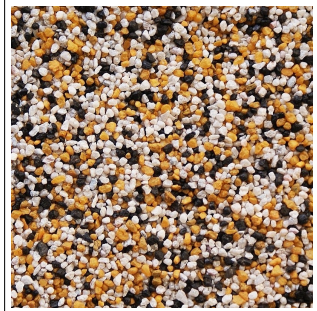
## Standard Colors in UniQuartz AC\_InduMix Collection:



**BGR 40**



**BR 44**



**DO 4**



**BYW 43**



**MSB 1**



**NMG 54**



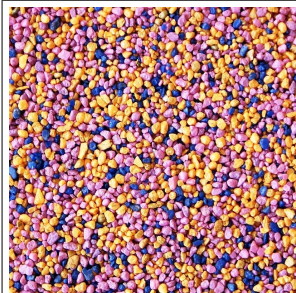
**MSW 1**



**NLB 9**



**NMG 57**



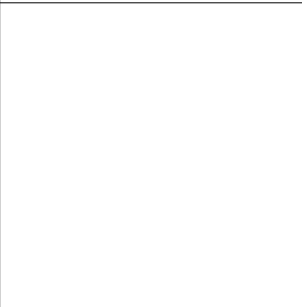
**PP12**



**VBW 8**



**NY 62**













**SZA 14**





# UniQuartz AC InduMix

 <p><b>BEZ 004</b></p>	 <p><b>BROJ 080</b></p>	 <p><b>CZER 020</b></p>
 <p><b>GAV 070</b></p>	 <p><b>SZC 425</b></p>	 <p><b>SAC 020</b></p>
 <p><b>SZCZ 43</b></p>	 <p><b>SMM 300</b></p>	 <p><b>SOJA 009</b></p>
 <p><b>NIEB 321</b></p>	 <p><b>SZJ 254</b></p>	 <p><b>SZNY 32</b></p>
 <p><b>TST 101</b></p>	 <p><b>ZLI 0077</b></p>	



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**LIABILITY:**

*All information, guidelines and prices are based on the current, actual state. Changes can be made without prior notice. Since environmental factors are constantly changing, we cannot accept any liability in these cases. Before application you should establish whether or not our products are suitable for desired application and will meet expected requirements. Due to the natural source of the raw materials, slight differences may appear in the colours. These differences may also appear between batches and sample materials .*

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