Technical Datasheet ColorQuartz IC InduCast

Highly decorative, functional, abrasion resistant Silica Quartz sand granulate. ColorQuartz IC InduCast is coloured with UV stable polyurethane. It is suitable for functional and decorative purposes like industrial floorings and wall finishings.

Product description:

ColorQuartz IC InduCast 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.

Product features / benefits:

- Excellent abrasion resistance against heavy loads
- Coloured with 100% UV resistant Polyurethane
- Highly decorative apperance
- Mainly for indoor applications

Applications:

UniQuartz IC_InduCast can be used as an anti-skidding layer. It can be scattered on a fresh polymer layer. The layer can be mechanicly 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 total 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.



Product data:

Name: -ColorQuartz IC InduCast

EINECS-nr.: -238-878-4 Hs code: -25.05.10 CAS-nr.: -14808-60-7

Colours: - standard color collection with 42 attractive monocolours. .

> 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.

Pictures:







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 ΔE = 7,47 **UV** lighted $\Delta E =$ 13,61

UV stability of used pigments

The IC InduCast 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 in weather conditions. These are on request.



Review of pigments UV stability:

Following standard information about the UV resistance of the pigments can be provided. The color can fade when exposed to sunlight. The list below directs changes that can be expected.

100% resistant is FULL UV stability.

- > 90% resistance, limited exposure is allowed.
- < 90% not suitable for outdoor conditions.

Colour code	Resistant (100%)	Not fully resistant (> 90%)	Not resistant (< 90%)	Colourcode	Resistant (100%)	Not fully resistant (> 90%)	Not resistant (< 90%)
11 EX	√			ICP D40	√		
IC2	√			ICP D43	√		
IC 3	√			ICP D60	√		
IC 4	√			ICP D61	√		
IC 5			√	ICP D62		√	
ICD GR3	√			ICP D63	√		
ICD EB4	√			ICP D64			√
ICD G5			√	ICP D69	√		
ICD BR10	√			ICP D71			√
ICD BL10		√		ICP D74	√		
ICD GR11	√			ICP D108		√	
ICH34			√	ICP D112		√	
ICH 37		√		ICP D113	√		
ICH 67		√		ICP D115		√	
ICH 89		√		ICP D118			√
ICH 95	√			ICP D167			√
ICP D04		√		ICP D170			√
ICP D05		√		ICP D727		√	
ICP D06			√	ICP D729	√		
ICP D07			√	ICP D777			√



Technical data:

Technical specifications:			
Hardness (Mohs)	7		
Chemical content of Granulation, this chemical analysis is a average guideline. It is taken from the CfQS 0,5-1,0 mm sand, other granulations can have slightly different values.	SiO ² AL ² O ³ Fe ² O ³ TiO ² CaO MgO MnO K ² O Na ² O So ³	: 96,88% : 1,928% : 0,0975% : 0,01242% : 0,0521% : <0,10% : 0,00254% : 0,892% : <40% : <0,020%	
Moisture	< 0,1 %		
Bulk density	1,55 kg/dm³		
Density	2,65 g/cm³(DIN ISO 787/10A)		
Sieving Curve	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		
Maximum deviation of the sieving 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			



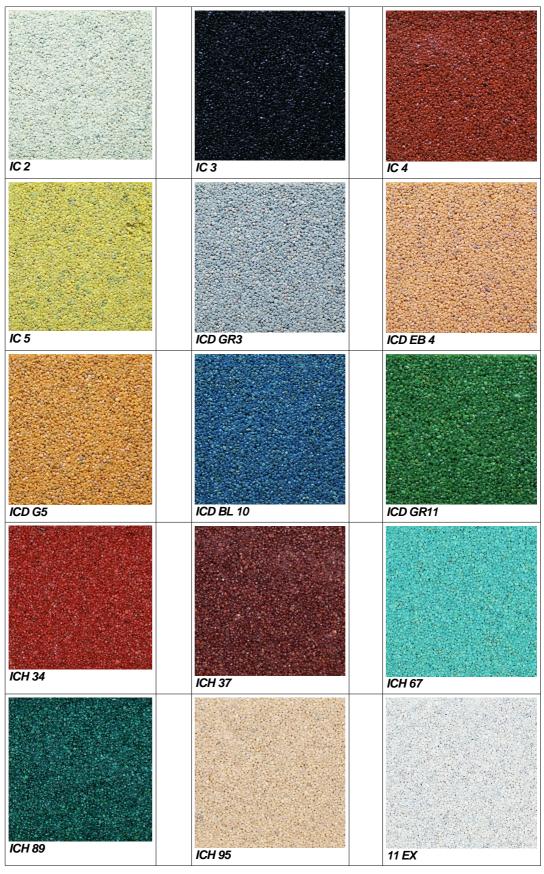
Standard Colors in ColorQuartz IC InduCast Collection:













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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