

Technical Data Sheet

Resin HSC 7456 / HSC Hardener 8430 (Ambient curing epoxy grouting system)

Product Description

HSC 7456 / HSC 8430 is a two-component water cleanable & stain free epoxy grout specially designed for use in floor & wall applications of ceramic tile, vitrified tile, mosaics, stone & structural glazed block. Any coloured silica powder may be used to get the desired shade of grout.

Features

- Chemical resistance towards many acids, alkalis, corrosive, salt water, oils and fats.
- Stain free and water cleanable, easy apply with workability
- Temperature resistance
- Anti-Bacterial & Anti-fungal
- Crack-free setting without shrinking and very high adhesion to tiles and substrate Sag Resistance - Suitable for vertical applications

Applications

- Laboratory, Rest rooms, Schools, Heavy duty workshops, garages and services facilities
- Institutional kitchens and catering facilities, Institutional facilities
- Swimming pools, Showers, Artificial water bodies and hot springs
- Bottling plants and breweries
- Food production: meat, fish, vegetable and fruit processing, canning areas, dairies and bakeries

Product Specifications

Properties	Units	Reference standard	Value	
			Resin HSC 7456	Hardener HSC 8430
Appearance	Visual	HTP-1	Clear Liquid	Clear yellow-brown Liquid
Color	Gardener	ASTM D1544	Max 2	Max 8
Viscosity at 25°C	mPas	ASTM D2196	900 - 1400	500 - 1000
EEW	g/eq	ASTM D1652	192 - 204	-
Amine value	mg KOH/g	ASTM D2073	-	425 - 450
Density	g/cc	HTP-6	1.05 - 1.15	0.95 - 0.97

Technical Data Sheet

Product Performance Data

Mix Properties	Units	Reference standard	Value
Mixing Ratio (R:H)	Pbw	NA	100:50
Mix Viscosity @ 25°C	mPas	ASTM D2196	800 - 1000
Pot life 100g @ 25°C	min	ASTM D2471	155 - 175
Hardness	Shore D	HTP-22	75 - 80

Working Properties

<u>Properties</u>	<u>Typical Value</u>
Workability at ambient condition	1 - 2 hours
Foot Traffic	24 hours
Heavy Traffic	72 hours

HTP: HSCL Testing Procedure,
NA: Not Applicable

Processing and Storage

Packaging	HSC 7456 is available in bulk packing of drum and container in packing size of 30 kg and 200 kg. HSC 8430 is available in bulk packing of container and jerry can in packing size of 30 kg.
Surface preparation	Make sure tiles are firmly set, and adhesive or mortar is completely dry for 24 hours. Remove all spacers, pegs, ropes and string; clean joints by removing free loose dirt particles. Excessive humidity (above ~65%), low daylight and low temperature (less than 20°C) may retard the cure.
Mixing	Pour the contents of Resin & Hardener into a clean pail. Always mix complete units. Resin and Hardener are packaged to the exact quantity ratio for proper mixing. Partial mixing will result improper/no curing of grout. Mix thoroughly using a margin trowel or slow speed drill mixer until resin and hardener completely blended. Slowly add at least ¾ filler into above Resin/Hardener mixer and mixed until a lump free, uniform consistency is achieved. Add remainder filler slowly, if required, to achieve desired consistency.

Technical Data Sheet

How to Apply

Fill the tile joints with the Grout using a rubber flout or plastic spatula, ensuring that the joints are completely filled. Remove the excess grout material from joints and surface by moving the rubber flout diagonally to the grout lines. Remove as much excess material as possible before initial cleaning with grout float. Do not leave excess grout on the face of tiles.

How to clean

After 30-45 minutes of the tile grout application, scrub the surface of the tile & joint with clean water and scrubber pad in a circular motion.

Using clean wet towel, remove residue from tile surface. Repeat as necessary rinsing the towel frequently in a pail of clean water until the oily feeling has gone. After 2-3 hours, joints will begin to harden. If rough or uneven found on joints, dress lightly with a sponge or gloved finger soaked in a soap solution to make smooth. Finally clean the tile surface with water and soap solution within 12 hours to remove epoxy haze. Care should be exercised not to use excess water or allow water to come into contact with the wet grout. Surplus material must be removed from the face of the tiles before it sets.

Limitations

Light colors may darken slightly from direct UV exposure. Consult with Technical Services for specific exterior recommendations.

Maximum stain resistance is achieved 10 days after installation. Protect from exposure to acids and strong cleaners during this period.

Not recommended for soft, polished marble or delicate glazed tiles.

We are not responsible for tile grout applicator not in accordance with our instructions and industry standard guidelines. Cracking due to structural movement, excessive deflection or other failure in the substrate is also not covered.

Storage Conditions

Part A & B should be stored away from light & heat. Partly emptied containers should be tightly closed immediately after use to avoid exposure to light. For information on waste disposal and hazardous products of decomposition in the event of a fire, refer to the Material Safety Data Sheets (MSDS) for these particular products.

Shelf Life

The shelf life for both products Resin and Hardener is 12 months from date of manufacturing.

Technical Data Sheet

Coverage of HSC 7456 / HSC 8430 Tile Grout

Tile Dimension (mm)			Consumption (kg/m ²) Tile Joint of Width								
Length	Width	Thickness	2 mm	3mm	4mm	5mm	6mm	7mm	8mm	10mm	12mm
100	100	3	0.22	0.32	0.43	0.54	0.65	0.76	0.86	1.08	1.03
150	150	4	0.19	0.29	0.38	0.48	0.58	0.67	0.77	0.96	1.15
200	150	5	0.21	0.32	0.42	0.53	0.63	0.74	0.84	1.05	1.26
200	300	6	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.90	1.08
300	300	6	0.14	0.22	0.29	0.36	0.43	0.50	0.58	0.72	0.86
300	300	10	0.24	0.36	0.48	0.60	0.72	0.84	0.96	1.20	1.44
400	400	6	0.11	0.16	0.22	0.27	0.32	0.38	0.43	0.54	0.65
450	450	7	0.11	0.17	0.22	0.28	0.34	0.39	0.45	0.56	0.67
450	300	7	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.70	0.84
500	500	8	0.12	0.17	0.23	0.29	0.35	0.40	0.46	0.58	0.69
600	600	8	0.10	0.14	0.19	0.24	0.29	0.34	0.38	0.48	0.58
600	900	11	0.11	0.17	0.22	0.28	0.33	0.39	0.44	0.55	0.66
900	900	12	0.10	0.14	0.19	0.24	0.29	0.34	0.38	0.48	0.58

Consumption: sq. ft/5kg unit

Tile Dimension (mm)			Consumption (kg/m ²) Tile Joint of Width								
Length	Width	Thickness	2 mm	3mm	4mm	5mm	6mm	7mm	8mm	10mm	12mm
100	100	3	249	166	125	100	83	71	62	50	42
150	150	4	280	187	140	112	93	80	70	56	47
200	150	5	256	171	128	103	85	73	64	51	43
200	300	6	299	199	149	120	100	85	75	60	50
300	300	6	374	249	187	144	125	107	93	75	62
300	300	10	224	149	112	90	75	64	56	45	37
400	400	6	498	332	249	199	166	142	125	100	83
450	450	7	481	320	240	192	160	137	120	96	80
450	300	7	384	256	192	154	128	110	96	77	64
500	500	8	467	311	234	187	156	135	117	93	78
600	600	8	561	374	280	224	187	160	140	112	93
600	900	11	489	326	245	196	163	140	122	98	82
900	900	12	561	374	280	224	187	160	140	112	93

Note: Calculated coverage indicated is approximate, based on "nominal" tile size and is provided for purposes of estimation only. Actual coverage will vary depending on job site conditions, actual tile size and installed grout joint size. Add 10-15% for waste, spillage and clean-up.

Technical Data Sheet

Disclaimer

All recommendations for use of our products, whether given by us in writing, verbally or to be implied from results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility. Therefore, the Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

Registered Office:

Hindusthan Speciality Chemicals Limited
(A Subsidiary of DCM Shriram Ltd.)
2nd Floor (West Wing), World Mark 1,
Aerocity, New Delhi 110037, INDIA
Tel: +91 9117020202
E-mail: saleshscl@dcmsriram.com

Factory:

Hindusthan Speciality Chemicals Limited
(A Subsidiary of DCM Shriram Ltd.)
Plot No.:830, GIDC, Jhagadia Industrial Estate,
Jhagadia, Bharuch District,
Gujarat - 393110, INDIA
Website: <https://dcmsriramchemicals.hindusthanspeciality.com/>