



AMERICAN  
TECHNOLOGY



GERMAN  
TECHNOLOGY

## TECHNICAL DATA



# EPOXY GROUT



Versatile  
Colours



Chemical  
Resistant



Glossy & Matt  
Effect



Bacteria Free



Waterproof



Scratch  
Resistant



Weather  
Resistant



UV  
Resistant

## DESCRIPTION

HIR R&D Team with latest technology and kindness of environment produce grout that stand time, wear and element with out of the box features. HIR introduce grout with versatile design, colour and user benefits. Epoxy Grout provides excellent high-quality joints between tiles & stone.

## FEATURES

- Versatile colour
- Extraordinary finish and fine texture
- Acid and Alkaline proof colour
- Stainless Technology
- Eco-Friendly
- UV Resistance
- Internal and External application
- Food Grade Certified
- Hygienic and chemical resistant
- Bacterial and Fungal growth resistant
- Provides high strength and durable joints
- Suitable for submerged conditions
- Easy to be cleaned from tiled surface

## SUBSTRATE TYPE

Ceramics, glazed tiles, porcelain tiles, vitrified tiles, glassmosaics, large formats, low thickness slabs, Natural Granite and marble in general Floors and Walls.

## AREA OF APPLICATION

- Kitchen bathrooms and toilets.
- swimming pools Water park, wave pools and public pools.
- Public restaurants & cafeterias.
- Hospital, Laboratories and research center.
- Food, Beverages, Dairies, Pharma and other chemical Industries floors.
- Waste treatment plant, podium parking and traffic area.

### TECHNICAL DATA

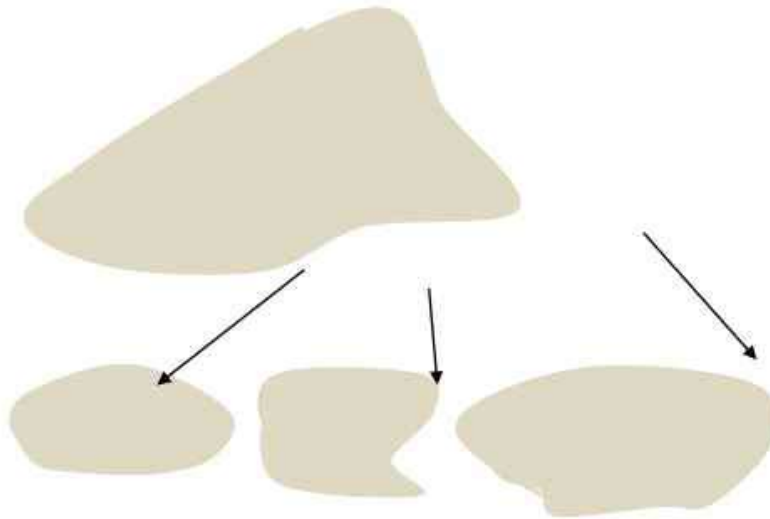
Appearance	Part A – Coloured Paste in Pouch Part B – Yellow Viscous Liquid in Tube
Mixing Ratio	Part A 910gm + Part B 90gm
Mixed Material Consistency	Smooth creamy paste
Specific Gravity	1.70
Mixed Density	1.60 ± 0.05 kg/ litre
Joint Width	1 - 15 mm
Pot Life	45 minutes
Light Foot traffic	24 hours
Interval before Normal Use	3 days
Full cure	7 days
Temperature Range of application	5°C to 35°C
Bond strength	> 1.5 N/mm <sup>2</sup> @ 7days
Tensile Adhesion 14 Days air	4.5 kN
Compressive strength	> 55 N/mm <sup>2</sup> @ 7days
Flexural strength	> 20 N/mm <sup>2</sup> @ 7days
Water Absorption	Nil
Shore D Hardness	> 70
VOC Content	113.78 g/l

### SUBSTRATE PREPARATION

- EPOXY GROUT has be done after minimum interval of 24 hours of fixing tiles, make sure the adhesive has set and released most of its moisture.
- Remove all spacer, joints must be Dry, clean from all kinds of dust, loose dirt particles, adhesive, grease, oil, polish and other such material which may result in failure of bonding.
- Do not use acid base cleaner to clean tiles as it effect Tiles and stone, always use HIR TILES CLEANER pre and post application of Epoxy Grout.
- Joint must be of minimum depth of 2 /3mm of the overall thickness of the tile or Stone.
- Put masking tape or sealer prior to grouting if substrate surface is porous or non glazed.
- Substrate temperature must between 5°C and 35°C. Avoid applying Epoxy grout on hot surface as it may compromise final performance of Epoxy Grout.

## MIXING AND PREPARATION

- Take HIR EPOXY GROUT Part A Paste in a clean container and add Part B Liquid Hardener.
- Mix both with a slow speed mixer having (>300RPM ) less speed until smooth, lump free homogenous paste is achieved.
- Avoid fast setting and entraining of air by mixing at very high speed or by over-mixing.
- Hand mixing with trowel is recommended for small quantity only.
- After mixing it leads to excretion of heat that is exothermic reaction. So if we divide mixture into small portion the concentration of heat reduces and results in longer pot life and avoids fast drying or setting.



Use the mixed material within 45 minutes before it starts setting in bucket.

## APPLICATION

Press the Epoxy Grout firmly by using a hard rubber squeeze/ grout floater into the joints. Grout material has to be completely filled between entire joint areas.

## CLEANING

- Remove excess grout from the joint and face of the tiles with the edge of the grout float. Hold the float at a 90° angle and pull it diagonally across the joints and tile to avoid pulling out the material. Cleaning and removing of excess grout will be done within 45 minutes before the epoxy starts setting.
- Use a rough textured scrub or sponge dampened with water and HIR TILES CLEANER to scrub the excess grout from tiles without disturbing the joint finish. Then take a clean thick white towel and drag across the tile to remove any residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
- The use of an excessive amount of water when cleaning would impair the final chemical resistances.
- Clean all tools and equipment immediately after finishing of work before the product has hardened.

## PRECAUTIONS

- Never apply the Epoxy Tile Grout on wet/ damp surface.
- Do not allow water to flow/run in to ungrouted joints while application.
- Protect from direct rainfall/ foot traffic for at least 24 hours
- Apply masking tapes along tile joints while working on unglazed tiles, natural stones, porous surface tiles with matt glaze or textured surfaces.

## SAFETY FEATURES

Wear suitable protective clothing, gloves and goggles. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Keep out of reach of children.

**PACK: 1KG, 5KG**

**SELF LIFE:** 12 Month in original packaging , protected from direct sunlight and stored in dry condition

$$\frac{(\text{Tile Length} + \text{Tiles Breath}) \times (\text{Tiles Thickness} \times \text{Joint Width})}{(\text{Tiles Length} + \text{Joint Width}) \times (\text{Tiles Breath} + \text{Joint Width})} \times \text{Specific Gravity} = \text{kg/sq.mtr}$$

**Note:** specific gravity= 1.75

All dimensions in **mm**

TILES DIMENSION (mm)			SPACERS: GROUTING SPACE BETWEEN JOINTS (mm)							
LENGTH	WIDTH	THICKNESS	2	3	4	5	6	7	8	10
25	25	3mm	790	1185	1580	1975	2370	2765	3160	3950
50	50	4mm	540	810	1080	1350	1620	1890	2160	2700
100	100	6mm	410	615	820	1025	1230	1435	1640	2050
100	150	6mm	340	510	680	850	1020	1190	1360	1700
200	100	6mm	310	465	620	775	930	1085	1240	1550
300	300	9mm	210	315	420	525	630	735	840	1050
300	450	9mm	170	255	340	425	510	595	680	850
300	600	9mm	160	240	360	400	480	560	640	800
600	600	9mm	110	165	220	275	330	387	440	550
600	600	16mm	185	277	370	463	555	648	740	925
1000	1000	9mm	62	93	124	155	186	217	248	310
1200	600	9mm	80	120	160	200	240	280	320	400
1200	2400	9mm	40	60	80	100	120	140	160	200
1600	800	9mm	60	90	120	150	180	210	240	300
1800	900	9mm	55	80	105	135	160	185	210	270
1800	1200	9mm	45	68	90	115	138	160	183	230
1800	1200	15mm	75	115	150	190	230	265	305	380

**Note:** The coverage mentioned in table is indicative only and can vary as per substrate, site condition, Installation methods and wastage during application.