



ULTRA EPOXY TILE GROUT

High Strength Achiever / Chemical Resistant

DESCRIPTION

ULTRA_{Epoxy} Tile Grout is a thixotropic 100% solid grout with excellent strength/high chemical resistant characteristics. It contains no solvent or non-reactive diluents. The grout is a three component system consisting of epoxy resin, hardener and specially graded pigmented silica aggregate.

Application:

Can be used to bond ceramic, Acid resistant tiles, clay and cement tile to concrete, steel, concrete block and wood.

BENEFITS/FEATURES

- Non-sag, trowel grade Grout with high chemical resistance.
- Excellent adhesion
- Impervious to water after curing

DIRECTION TO USE

SURFACE PREPARATION

All concrete and block surfaces must be sound, dry, free of all oil, dirt, grease and other foreign matter. Steel surfaces must be degreased and all scale and rust must be removed by either wire brush or sandblasting. Wooden surfaces to receive the grout should be dry and free of movement. Scar wooden substrate with coarse sandpaper to provide improved bond.

MIXING

Mix the resin and hardener using a low speed paddle for a minimum of 3 minutes. Add contents to a clean mortar mixer and slowly add the aggregate. After all the aggregate is added, scrape down the sides of the mixer, and then continue to mix for 5 minutes. Mixed product should be placed within 30 minutes at 24°C (75°C).

LIMITATIONS

If mixing and placing less than one unit at a time, be sure that exact mix proportions are adhered to surface must be dry prior to application for applications involving chemical exposure, consult your ULTRA Technical Representative

CLEANUP

Clean up may be accomplished with solvent.

Once the grout has cured, clean up is extremely difficult.

STORAGE

Do not freeze. Resin may crystallize if frozen. Store only under normal heated warehouse conditions.

SHELF LIFE

One year from the date of manufacture when stores in original containers at normal warehouse temperatures.

Storage:

Avoid to place direct to sun light and always store in shady areas.

ISO Certification:

Our production facility at Pakistan is ISO 9001:2008 ISO 14001:2004 by BUREAU VERITAS and UKAS Management

| PROPERTIES | @20°C | @35°C |
|--------------------|--------|---------|
| S.G | 2.18 | 2.18 |
| Pot-life | 2 hrs | 1 hr |
| Adjustability Time | 3 hrs | 90 mins |
| Initial Set | 8 hrs | 4 hrs |
| Initial Cure | 24 hrs | 18 hrs |

Tensile Strength (ASTM C307) @ 10°C (50°F)

| Days | N/mm ² | PSI |
|------|-------------------|------|
| 1 | 14 | 2050 |
| 3 | 14 | 2050 |
| 28 | 14 | 2050 |

@ 22°C (70°F)

| Days | N/mm ² | PSI |
|------|-------------------|------|
| 1 | 14 | 2000 |
| 3 | 14 | 2015 |
| 28 | 14 | 2040 |

Compressive Strength (ASTM C579) @ 22°C (70°F)

| Days | N/mm ² | PSI |
|------|-------------------|--------------|
| 1 | 70 | 10150 |
| 3 | 80 | 11603 |
| 7 | 89 | 12875 |
| 28 | 104 | 15080 Linear |

Shrinkage

(ASTM C531)

7 days 0.13%

14 days 0.23%

Coefficient of Thermal 7 days 0.00005 mm/mm/°C

Expansion (ASTM C531 @ 22°C (70°F))

Water Absorption

(ASTM C413) -0.04% (by weight)

The above information is representative of actual Production runs. Independent test results may vary from the above information by approximately ± 10%.

PACKAGING

8 kg Pack

CHEMICAL RESISTANCE

| | |
|---------------------------------------|---|
| Acetic Acid, 10%.....excellent | Industrial Methylated spiritsgood |
| Acetone non-resistance | Lactic acid 10% Excellent |
| Alkali's excellent | MEK.....excellent |
| Ammonia ...10%..... excellent | Methylene Chloride poor |
| Battery Acid good | MIBK poor |
| Beer excellent | Nitric Acid, 25%excellent |
| Bleach excellent | Oilexcellent |
| Brake Fluid good | Power Steering Fluid.....excellent |
| Butanol good | Phosphoric Acid, 50%..... Good |
| Citric acid excellent | Skydrol.....good |
| Diesel Fuel excellent | Sugar Solution St.....excellent |
| Ethanol poor | Sodium Hydroxide 50%.....excellent |
| Ethylene Glycol..... excellent | Sulphuric acid..... 80%excellent |
| Gasoline excellent | Transmission Fluid.....excellent |
| Hydraulic Oil.....excellent | Toluene.....good |
| Hydrochloric Acid, 50%excellent | Urine.....excellent |
| | Xylene.....excellent |