

NITCO TILES

Caststone

SPECIFICATION

Concrete is normally associated with multi-storey car parks, power stations, road works etc. However NITCO's caststone is light and versatile and yet has the solidity and density of concrete.

Caststone is smooth to touch is modern yet classical. Today many architects and planners, the world over are fast recognizing the grace, warmth & charm of designer concrete "CASTSTONE". Modern molding and processing methods of concrete have been developed in house at NITCO.

CASTSTONE: Precast concrete tiles for use on floors & walls. Composed of a concrete mix design using silica sand, quartz, white cement and special chemical which provide dense & hard surfaces with low porosity which are suitable for heavy use.

TECHNICAL SUMMARY

1. **Water Porosity** : 0.4g/sqcm
2. **Abrasion Resistance** : Average Abrasive Wear Index: 178
3. **Transverse Strength** : 5.0n/sq mm
4. **Compressive Strength** : 50 mpa
5. **Flexural Strength** : 8.0 mpa
6. **Mohs Hardness** : 5
7. **Standard Tile Sizes & weights** : 300x300x25mm - 50 kgs
400x400x30mm - 10.5 kgs
600x600x32mm – 26 kgs
600x300x30mm – 13 kgs
8. **Tolerance** : Size- +/- 1.0mm Thickness- +/- 3mm
Warpage- +/-2mm
9. **Installation** : Cladding- Mechanically fix per engineering design. Flooring – Using Bal Endura/ Laticrete/Silver/Gold Star.
10. **Suggested Grout Joints** : 3mm

11. **Packaging** : Corrugated Boxes

12. **Sealer:**

Stainless:

- Density 1.1 g/ml
- VOC (ASTM 3960-89) < 240 g/l
- Boiling point 100° C
- Vapor pressure @ 20° C 18 mmHg
- Evaporation Rate 1, Water = 1
- Solvent DPM (5%) and water (75%)

Ever Shine:

- Colorless, transparent liquid. It cures, seals, hardens, dustproof, bonds & restricts external moisture/ice to penetrate.
- Special Gravity : 1.1-1.2@ 20 degree C.
- Boiling Point: 230 degree F (110 degree C)
- Vapour pressure (mmHg.)25 degree F (-3.89 degree C): 23.756
- Vapour density (AIR=1) 25degree F (-3.89 degree C) :9996 pH:11.3

NITCO TILES

AKERUSTONE

SPECIFICATION

Providing & laying of factory blended concrete mix design in approved colour.

Installed on substrate prepared using special polymerised screed 45mm thick un-bonded using isolation membrane. Screed to be primed with 2 coats of epoxy resin prior to 5-10 mm overlay of akerustone – Compressive strength : after 7 days approx. 15N/mm², & after 28 days approx. 25N/mm² .

After curing for three days floors to be polished & sealed according to approved finish.

NITCO TILES

NITCO PRECAST INTERLOCKING PAVERS SPECIFICATION.

SIZE & SHAPE	: AS PER CLIENT'S CHOICE.
EDGES	: CHAMFERED, SHARP.
APPLICATION	: WALKWAY, DRIVEWAY, INDUSTRIAL.
THICKNESS	: 30/40MM 40/50MM 60/75MM 80/100MM.
COMPRESSIVE STRENGTH	: 50KG/CM,200KG/CM,300KG/CM,400KG/CM.
FINISH	: SMOOTH, COURSE, GRANULAR.
BED PREPARATION	: WBM, LEAN, PCC (1:4:8 OR 1:5:10).
FIXING MEDIUM	: MORTAR 20/25 MM (1:6) OR SAND WITH VIBRATOR COMPACTION (20 TO 40MM).
SLOPE GRADIENT WITH	: ADEQUATE (MIN.2% PREFERABLY 3%) DRAINAGE FACILITY.
CHEMICAL COATING EPOXY	: OPTIONAL (SILICONE,POLYURETHANE OR RESIN BASED).
GROUTING	: DRY OR WET GROUTING.
EDGE RESTRAINT	: KERBSTONE OR RETAINING WALL.
MOULD USED	: HIGH PRECISION MAGNESIUM STEEL.
MOULDING TECHNIQUE	: BY HYDRAULIC COMPRESSION (3000 PSI).
NO. OF LAYERS	: TWO.
OUTER LAYER	: 1:1 OR 1:2 (8 TO 10MM).
CORE	: 1:3:6 OR 1:2:4 OR 1:1.5:3.
TOLERANCE/UNIFORMITY	: BACK LAYER (i.e. THICKNESS VARIABLE BY 1 OR 5MM).

NITCO TILES

HEAVY DUTY CHEQUERED TILES

SPECIFICATION

Providing & laying NITCO antiskid chequered cement concrete flooring tiles shall be manufactured as per I.S.Specn. 13801: 1993 from a mixture of cement, natural aggregates, hardner and pigment rating minimum 7 on the blue wool scale. During manufacture the tile shall be subjected to a pressure of not less than 14n/mm². Curing by mist to minimise efflorescence is essential. Laid and jointed with neat cement slurry mixed with pigment to match shade of tiles on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand).

TECHNICAL SUMMARY

1. **Water Porosity** : Less than 7%.
2. **Abrasion Resistance** : As per ISI Specifiction.
3. **Transverse Strength** : Min.- 4.0N/mm²
4. **Compressive Strength** : 35 mpa
5. **Flexural Strength** : 6.0 mpa
6. **Mohs Hardness** : 5
7. **Standard Tile Sizes** : 250x250, 300x300, 400X400
8. **Tolerance** : Size- +/-5mm in length & width and +5mm in thickness
9. **Installation** : Manually by fixing in cement mortar
10. **Suggested Grout Joints** : Butt jointed.
11. **Sealant** : Stainless – (Volatile 57.18%, Density (7.96 Lbs/Gal), Water 36.98%, VOC –Grams 298/Ltr. 2.5Lbs./Gal.) Evershine – (Colourless, transparent liquid- cures, seals, hardens, dustproof, bonds &Restricts external moisture/ice to penetrate)
12. **Packaging** : Loose