



RAZON ENGINEERING COMPANY PRIVATE LIMITED

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AN ISO 9001-2008 COMPANY TOP-CRETE 333

Top-crete 333 is precisely granulized, specially treated, very close granulometry non metallic, very high abrasion resistant mineral surface hardner which bonds monolithically to the base concrete. Topcrete 333 when used as floor hardener, imparts very high abrasion resistance. It has to be applied as dry shake over just laid and leveled fresh green concrete which has commenced setting. It provides tough, long life, abrasion resistance to heavy duty concrete flooring capable of withstanding medium to heavy industrial traffic, for heavy fork-lifts, and surface abrasion. It improves impact resistance and resistance to pitting of a concrete floor. Also provides non skid surface.

Method of use:-

The concrete flooring which is to be treated must ideally be of grade > M20. Top-crete 333 must be applied as dry shake over green concrete where the setting has commenced. Sprinkle it evenly over the surface, ensure it is uniformly spread over the area, tamp it to ensure it is completely embedded in the concrete surface.

Use 3 kg/M² to 8 kg/M² on leveled green concrete surface, depending on the anticipated surface service life (use table below to determine consumption). Ensure uniform distribution over the entire concrete

surface. Once the hardner appears uniformly moist, the surface must be floated either manually or mechanically. Avoid addition of moisture to surface prior to or after using Top-crete 333.

For concrete exhibiting bleeding, allow bleed water to evaporate before using Top-crete 333. Many a times air entrained concrete is used for freeze thaw service conditions, air entrapment greater than 3% make use of hardners redundant. Air entrainment of more than 3% is not encountered in tropical climatic regions. It is also not recommended for flooring likely to encounter exposure to corrosive fluids or salts in flooring service life.

Advantages:-

Top-crete 333 is commonly used for non skid flooring, tough, hard, wear resistant concrete flooring. It is concrete coloured.

Applications:-

In factory flooring, beverage plants, food processing plants, hangars large engineering industries or workshops etc.

It is used on pavement quality roads, runways, or other industries where forklifts are used. It is iron/staining free it is most suitable for concrete flooring exposed to moisture or water during its service life.

Abrasion resistance data- Standard Abrasion Test		
S/n	Matrix	Wear in mm
1	Plan M-30 concrete surface, under standard abrasion test	4.5 mm
2	M-30 concrete with, 8 kg/M ² Top-crete 333	0.09mm wear
3	M-30 concrete with, 5 kg/M ² Top-crete 333	2 mm wear

Condition	Areas	Application Rate
For Light abrasive areas	Concrete Roads, Highways, Industrial floorings where material movement is manual/ by light material handling equipments, chemical industries, warehouses etc.	3-6 kg / M ²
For heavy abrasive areas	Ports, Aircraft runways and hangars, areas where very heavy load vehicular movement is expected, industries where forklifts & EOTs are used, etc	6-9 kg /M ²

PRODUCT DATA

No	Characteristics	Property
1	Application	Applied as dry shake. It is evenly sprinkled on surface and tamped to completely imbed the granules in the surface matrix so as to form a monolithic bond to the base concrete.
2	Coverage	i). For light duty abrasion resistant surface use 3 to 6 kg /M ² . ii). For very heavy duty abrasion resistance surfaces use 6 to 9 kgs per M ² .
3	Curing	Curing compound CCC should be employed for efficient curing. Alternatively thorough conventional floor curing may be employed. Range of concrete cure coating is available.
4	Abrasion Resistance	Excellent. Topcrete 333 improves abrasion resistance of concrete by 1.5-2 times.
5	Mohs Hardness (scale 1 to 10)	8
6	Impact Resistance	Excellent
7	Packing	30 kgs, hermetically sealed inner polyethylene, outer woven HDPE bags
8	Shelf life	12 months if stored in cool dry place, air tight packing
9	Test Codes	Tested as per IS 1237:1980

OTHER PRODUCTS:-

- Corrosion Inhibiting Admixtures for reinforced concrete.
- Aesthetic improving systems for concrete.
- Superplasticizers for dense concrete
- Curing Compounds for concrete.
- Waterproofing Treatments for Water tanks, ETP/STP and office blocks
- Non Shrink Cementitious grout for anchoring heavy machinery
- Structural protective coatings for corrosive environments..
- Instant Repair Mortars for Structural Concrete
- Acrylic, Polysulfide and Bituminous Sealants
- Self Levelling Cementitious Mortars
- Tile Adhesives and Tile Grouts
- Epoxy based Tile grouts
- Floor marking paints
- Concrete Sealers.



It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable