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MasterTop® 330

Heavy duty high strength iron aggregate topping

DESCRIPTION

MasterTop 330 is an iron aggregate topping designed to provide industrial floors with extra heavy-duty protection against abrasion and impact. Applied over prepared hardened concrete it gives significantly longer service life than either normal high strength concrete or natural aggregate toppings.

MasterTop 330 has a lower modulus of elasticity than other toppings of equivalent compressive strength which increases impact resistance and total energy absorbing capacity (toughness)

RECOMMENDED USES

- Areas subject to heavy abrasive traffic, impact and continuous wear, such as loading docks, aisles, waste transfer facilities, truck or tractor repair areas, and mill scale sluiceways
- Areas where safety authorities have deemed other floor surfaces hazardous because of excessive wear such as dangerously buckled steel plates, etc
- Mining workshops with tracked vehicles
- Floors with scraper blades in constant contact

MasterTop 330 is not recommended for areas where steel plate has worn through in less than one year, or where the floor surface is exposed to chemicals that would affect a concrete floor. For applications under these service conditions **Ucrete** may be a better option

FEATURES AND BENEFITS

- **Ease of application** – extended working life at screedable consistency (130 to 180mm slump) allows ample time to place, float and finish. Rotary compactors are not required.
- **Heavy duty, durable industrial floor topping** – formulated to be applied at a thickness of 13 to 40mm. Thickness chosen depends on project requirements, including design traffic loading, abrasion, impact and chemical resistance. Refer to BASF and **MasterTop 330** Application Guide for more information.
- **High abrasion resistance** – eight times more wear resistance than plain concrete.
- **Greater toughness** – energy absorbing capacity is significantly greater than normal high strength concrete or natural aggregate toppings.
- **Increased impact resistance** – four times greater than plain concrete.
- **High density surface** – resists oil and grease penetration, reduces dusting and absorption.
- **Protects against joint deterioration** – iron armouring eliminates the risk of dangerous protruding or buckled joints from steel tiles, minimises damage to production goods and increases the life of materials handling equipment.

PROPERTIES

Compressive Strength

Typical compressive strengths for 50mm cubes, cured at 21°C, mixed to the recommended consistency using 2.0 litres of water per 20kg bag.

Age	MPa
24 hours	47
3 days	60
7 days	68
28 days	88

Reasonable variations from the results shown here may be experienced as a result of jobsite conditions. Mix an entire bag of **MasterTop 330** when preparing cubes for strength tests.

Abrasion Resistance (ASTM C779)	0.20mm at 60 minutes (33MPa concrete more than 1.4mm at 60 minutes)
Impact resistance (LA Rattler)	30% weight Loss (33MPa concrete has 70% loss of weight)

See Technical Sheet 22 for explanation of abrasion and impact tests and how they relate to long-term durability of the floor.

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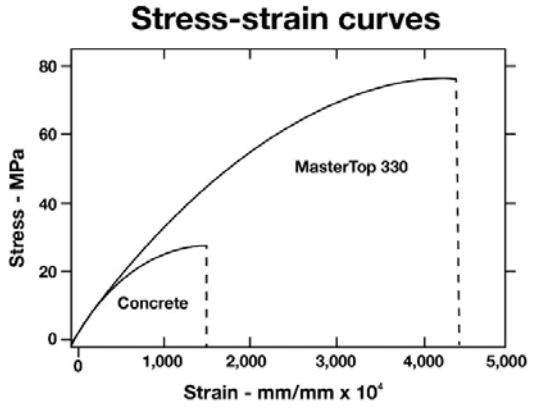
Stress-Strain Tests

Typical stress-strain test data comparing the basic material properties of **MasterTop 330** to 28MPa plain concrete, using 76mmx152mm cylinder cured at 21°C.



	MasterTop 330	Plain Concrete
Unit weight, kg/m^3	3555	2325
Modulus of elasticity, 10^{6}MPa	2.7	3.1
Maximum Strain, mm/mmx10^{-6}	4450	1620
Toughness, MPa x 10^{-2}	21	3

APPLICATION

Please refer to BASF Application Guide for **MasterTop 330** for complete application and curing instructions **MasterTop 330** is best applied over concrete with a minimum compressive strength of 30MPa.

ESTIMATING DATA

One 20kg bag of **MasterTop 330** mixed with 2.0L potable water provides approximately 6.2L of screedable topping at 150mm slump.

MasterTop 330				
L	Thickness in mm /m^2	m^3	bags /m^3	m^2/mm thickness
6.2	6.2mm	(0.0062)	161	6.2 m^2

Because the depth of surface preparation may vary from design it is best to overestimate the quantity required by 10-20% for the first stages, until actual usage is established.

PACKAGING

MasterTop 330 is packaged in 20kg moisture resistant paper bags.

SHELF LIFE

MasterTop 330 can be stored in tightly sealed original bags for 12 months if kept dry and at warehouse temperatures.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF Safety Data Sheet (SDS) from BASF office or website.

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