

SOPRA FLOOR EMERITOP 100

Pre- Mixed Non Metallic Shake-On-Floor Hardener

DESCRIPTION

A ready to use blend of non metallic synthetic mineral aggregate "Dynagrip" and cement which is applied as a dry, shake on material to the surface of wet concrete or screeds and does not rust.

SOPRA FLOOR EMERITOP 100 is an attractive, long lasting, heavy duty concrete floor hardener.

SOPRA FLOOR EMERITOP 100- will provide the necessary concrete surface and give added protection against wear, impact, abrasion and a high resistance to oils, greases and detergent.

DYNAGRIP AGGREGATE-provides a non-slip surface and is an extremely hard chemically inert aggregate which resists polishing.

ADVANTAGES

- * Easy to apply and economical.
- * Provides a hard wearing, abrasion and impact resistance surface.
- * Provides a non-slip surface.
- * Good resistance to oils and greses.
- * Available in range of colours.
- * Does not Rust - Non-Metalic aggregate.

STANDARDS

ABRASIVE RESISTANCE - ASTM C944.

Aggregate from natural sources for concrete-BS 882-83.

USES

SOPRA FLOOR EMERITOP 100 is designed to ensure improved durability in application where the floor is subjected to medium and heavy traffic and where a non-dusting surface is required.

Excellent for all industrial areas subject to heavy traffic such as- loading bays, car parks, ware house floor repairs, workshops and machine shops.

COMPOSITION

SOPRA FLOOR EMERITOP 100 consists of:
Non-metalic inert high quality mineral aggregate - Cement
Pigment
Proprietary chemicals.

APPLICATION CONDITION

- * COLOUR - Grey, Red, Buff, Green
- * COMPRESSIVE STRENGTH-70N/ mm² BS 6319 (part 2).
- * CHEMICAL RESISTANCE - Will resist water, oils, mineral oils, mild acids, salt solution 15%, sea water, soda solution 25%.
- * ABRASION RESISTANCE - Test methods accordance with ASTM C944 **SOPRA FLOOR EMERITOP 100** exhibited approximately 82% greater control than concrete containing 370kg O.P.C. and W/C. ratio of 0.5.

APPLICATION

The concrete supplier should ensure the following mix design:

Cement (SRC or OPC)	: Min-320kgs/m ³
W/C ratio	: max. 0.05
Slump	: From 8-10
Strength	: 30N/mm ²

- * Concrete should not segregate and bleed.
 - * Concrete should not contain more than 3% air.
- A Super plasticizer such as **SOPRA FLUID G.** is

recommended for concrete placement & optimum performance.

For the application of **SOPRA FLOOR EMERITOP 100** the screed should be 10cm minimum thickness. Following placement of **SOPRA FLOOR EMERITOP 100**, concrete should be levelled off with a straight edge. "wooden bull float" and then vibrated. The surface should then be floated with a wooden float ensuring that it is closed. Any bleed water should be removed (avoid sponge type absorbents). Thereafter sprinkle **SOPRA FLOOR EMERITOP 100** along edge of slabs (approximately 10cm strip) where expansion and construction joints will be located. Float into surface using wooden float.

The ideal application of **SOPRA FLOOR EMERITOP 100** to be applied is on a surface neither wet nor dry. The ambient temperatures will indicate when the material is to be applied. Normally in temperature of 35-45°C a waiting period of 25-35 minutes is recommended. If the temperature is less, the time should be extended. Using a raised trestle which spans the slab, the material is broadcasted by hand onto the wet concrete surface.

The application is carried out in the following stages:

- * Apply 60% of the required materials to the concrete ensuring uniform distribution.
- * Allow applied material to absorb moisture from concrete.
- * Using a wooden float, float **SOPRA FLOOR EMERITOP 100** into the Concrete ensure that the material becomes an integral part of the concrete.
- * Apply the balance of 40%, wait until material has obtained a darker colour before floating with

wooden float.

* When surface is sufficiently firm enough to take the weight of foot traffic **SOPRA FLOOR EMERITOP 100** should be finished off by the means of a power float. A smooth slip resistant finish can be obtained, but the surface should not be over worked.

CURING

Curing should follow immediately after the final trowelling operation. It can be done by either covering with polythylene sheets or by the application of a curing compound "such as **SOPRA CURE WB** at a rate of 5m²/ Litre.

PACKAGING AND COVERAGE

25kg/ Bag

LIGHT DUTY SYSTEM : 3kg/ m²

MEDIUM DUTY SYSTEM : 5kg/ m²

HEAVY DUTY SYSTEM : 7kg/ m²

The following points should be taken in consideration:

- * Dry shake application should preferably not take place in direct sunlight or when hot winds are blowing. This will avoid "bread crusting" occurring i.e. top 50-10mm of surface dries whilst concrete beneath is still wet. This often results in tearing of the surface dries whilst concrete beneath is still wet. This often results in tearing of the surface whilst trowelling is in motion.
- * as with any concrete slab or bay, curing is of paramount importance and should take place immediately upon completion of finishing.