CP-FLOOR HARDENER

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Is designed for use as a dry shake material to improve the wearing characteristics and abrasion resistance of concrete floors. FLOOR HARDENER may be used wherever a hardwearing floor is required which is not subject to high impact loadings such as light factory units, warehouses and garages.

Benefits

- Iron free – iron does not present in FLOOR-HARDENER making it is suitable for use in wet areas.
- Heat Resistant – when high heat resistance is required around furnaces, FLOOR-HARDENER may be used with high alumina cement to resist temperatures up to 100° C.

Application

All base concrete should be laid in accordance with good flooring practice as outlined by the Cement and Concrete Association.

Trowel in Application – Dry mix 2 parts of FLOOR-HARDENER with I part of cement by weight. For each m^2 of surface the following amount of FLOOR-HARDENER Ready-Mixed concrete shall be used :

Light traffic 3 kgs. dry mix.

Heavy traffic 5 kgs. dry mix.

Do not add water to the mix. This mix should be broadcast over the wet concrete in two equal stages, evenly over the surface of the base concrete. The material should be over floated into the concrete after each scatter. The first scatter of material should take place as soon as the surface can support a power float and the second follow immediately after the first. When the surface has hardened sufficiently, a second trowelling should be carried out and the surface finally hand trowelled to remove disc marks. The finished floor should be cured under prevent rapid drying of the concrete.

Sealing

Floor may be scaled for chemical resistance 28 days after laying.

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Reference No. : AG4 00/45

FACULTY OF ENGINEERING
CHULALONGKORN UNIVERSITY
ABRASION RESISTANCE TEST OF CONCRETE BY SANDBLASTING
ASTM-C418

Date : April 23, 2002

Tested by : .....
(Prof.Dr. Vanit Chonlachien)

Specimen Description : Supertop Non-Metalic Floor Harder

(The test results are good only for those specimen tested.)

Spot No.	1	2	3	4	5	6	7	8	9
Weight of Clay (g.)	1.40	1.80	1.60	1.50	1.50	1.60	1.50	1.40	1.50
Volume of Clay ($cm.^3$)	0.81	1.04	0.93	0.87	0.87	0.93	0.87	0.81	0.87
Average Diameter of Abraded Area (mm.)	28.50	29.70	29.50	29.45	29.15	29.45	29.70	28.85	28.95
Abraded Area ($cm.^2$)	6.38	6.93	6.83	6.81	6.67	6.81	6.93	6.54	6.58
Abrasion Coefficient Loss ($cm.^3/cm.^2$)	0.13	0.15	0.14	0.13	0.13	0.14	0.13	0.12	0.13
Precision of Abrasion Coefficient Loss (%)	3.74	13.97	2.68	3.41	1.41	3.03	5.03	6.06	0.04

Remark : Specific Gravity of Clay = 1.73 (g./cu.cm.)

Average of Abrasion Coefficient Loss = 0.13 ($cm.^3/cm.^2$)

(Assoc.Prof.Dr.Boonchai Stitmannaithun)

On Behalf of

Head of Civil Engineering Department