

DESCRIPTION

SD FORMULA is a colorless, odorless, and an environmental friendly reactive concrete sealer designed to increase the lifetime and reduce maintenance of concrete floors. **SD FORMULA** reacts strongly with the free lime in the concrete substrates, solidifying it into a homogeneous concrete mass. The hardened concrete improves its resistance to abrasion thus making it dust-proof and reduces water/oil penetration.

USES

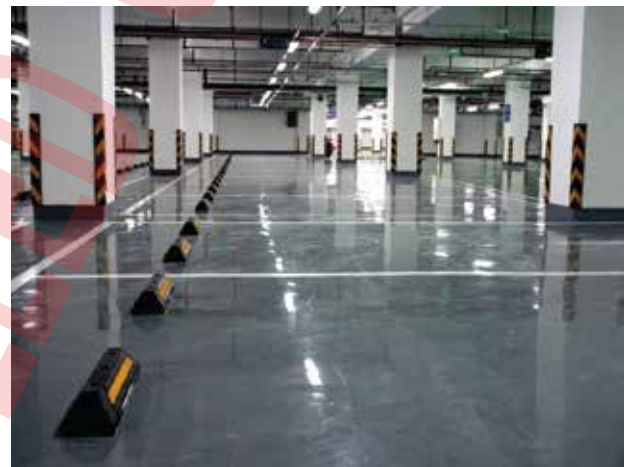
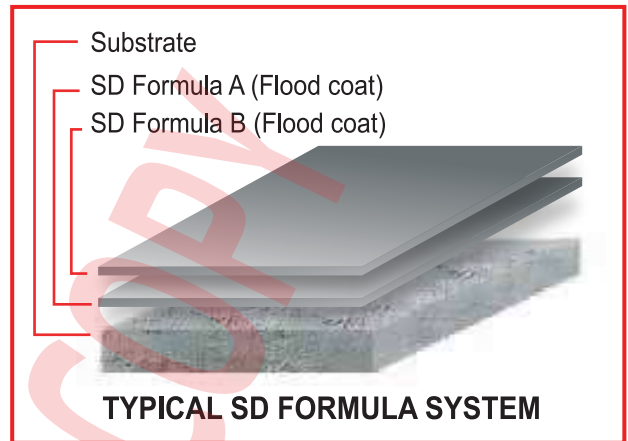
SD FORMULA is recommended for use in high traffic areas such as warehouses, distribution centers, manufacturing plants, textile mills, bottling plants, cold room, food processing plants, canning factories, aircraft hangar, carparks and service garages.

BENEFITS

- Forms a permanent, insoluble bond within the capillaries
- Produces a hardened surface layer that is breathable, dense and abrasion resistant
- Hardened surface is dust-proof as well as stain resistant
- Non-yellowing, non-discoloring product and can resist tire marks
- Mirror like finish when polished

COLOR

Clear

**Technical Data :**

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| No. of Components | 1 |
| No. of Coats Recommended (SD Formula A + SD Formula B) | 2 |
| Recommended Dry Film Thickness | N/A |
| Estimated Coverage | 400 - 500gm/m ² depending on porosity of concrete |
| Mixing Ratio (By Weight) | Nil (Single Components) |
| Gel Time | 3 - 4 hours @ 30°C |
| Hard Cure | 72 hours @ 30°C |
| Hardness | >8 Mohs Hardness Scale |
| Temperature Resistance | >80°C |
| Water Absorbtion | >0.5% |
| Pot Life | N/A |
| Storage & Shelf Life | 12 months in unopened in dry conditions at 10°C - 25°C |
| Packaging | 20 & 200 kg |

NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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INSTALLATION**SURFACE REQUIREMENT**

Suitable substrate will normally be concrete or modified polymer screeds with a minimum compressive strength of 25 N/mm² and pull-off strength of 1.5N/mm². Use high pressure water jetting to remove any traces of laitance, dust, dirt and other foreign materials which may impair bonding. Repair damaged concrete, cracks and other imperfections by normal procedure of concrete repair method.

MIXING

SD FORMULA is a single component product which requires no mixing. However due to storage, the product's active ingredients may have been left sitting for a while. It is then recommended to agitate the drum to stir up the product before use.

THINNING

For best results, SD FORMULA is formulated to be used straight from the containers without further thinning.

TOOLS / MACHINERIES

It is imperative that adequate suitable mechanical tools / machineries are employed through out the application of SD FORMULA to achieve the desired result especially the Mirror Effect finishing; without such resources, it is almost impossible to work with SD FORMULA successfully. Consult Cemkrete for required tools / machineries recommendation.

APPLICATION**Plain Finish :**

Apply SD FORMULA A by spray, mop or simply pour on the concrete to flood surface until saturation but do not allow to form pond. Remove excessive materials by spreading over other untreated areas.

Allow product to react with concrete for about 60 minutes and when it is gelling, spray water mist onto the surface to assist further reactions. Allow product to dry out 2-4 hours depending on the surrounding temperature or just before the product turns whitish. The process is then followed by immediate water washing off with the help of motorized bristle disc in circular motion.

Repeat washing if necessary to avoid formation of whitish salt on the concrete surface which is difficult to remove when fully cured. All excess washing water should be thoroughly removed by mop, vacuum to avoid settlement of the washed out residue which will form loose film on top of concrete surface.

Repeat cleaning if necessary and allow the floor to dry for at least 12 hours.

Apply SD FORMULA B following the same procedure as SD FORMULA A, allow floor to cure for at least 24 hours before it is opened for traffic.

Mirror Finish :

Apply SD FORMULA A by spray, mop or simply pour on the concrete to flood Surface until saturation but do not allow to form pond. Remove excessive materials by spreading over other untreated areas. Allow product to react with concrete for about 60 minutes and when it is gelling, spray water mist onto the surface to assist further reactions.

Allow product to dry out 2-4 hours depending on the surrounding temperature or just before the product turns whitish. The process is then followed by immediate water washing off/ grinding with the help of motorized grinding disc (G30-800) in circular motion.

Repeat grinding 3-4 times with different gauge grinding disc until initial gloss of concrete is achieved. All excess washing water/ground sludge should be thoroughly removed by mop, vacuum to avoid settlement of the sludge residue which will form whitish loose film on top of concrete surface.

Repeat cleaning if necessary and allow the floor to dry for at least 12 hours.

Next apply SD FORMULA B following the same procedure as SD FORMULA A but change slightly by using G500- 3000 grinding disc to achieve final mirror finish.

While the entire grinding process is carried out wet, it is recommended to dry polish concrete surface using G1000-3000 disc or above for best gloss result.

The level of mirror finishing of floor will decide the number of grinding / polishing cycles needed. Allow floor to cure for at least 24 hours before it is opened for traffic.

HEALTH & SAFETY

As this product is off highly alkaline in nature, use approved protective clothing, gloves and respirator during application and ensure there is adequate ventilation. For further information, refer to the product Material Safety Data Sheet available upon request.

FURTHER INFORMATION

With a wealth of technical and practical experience built up over many years in our pursuit of excellence especially in the protective, flooring and concrete technology, make CEMKRETE your partner today. Contact our hotline now.

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