

SafeKote is a single-component polyurethane coating incorporating anti-slip particles that provide an attractive slip-resistant surface for wet and dry areas, even in marine environments. SafeKote has an attractive, low gloss finish which is easy to apply and to clean with an extremely abrasion resistant and weather resistant film. The non abrasive, anti-slip silica particles of SafeKote make it perfect for use in environments such as hospitals, hotels or children's playgrounds.

Colours: A range of standard colours is available including clear and a range of marine colours that will not fade or yellow from UV radiation.

Clear, White, Platinum Grey, Yellow, Red, Dark Blue & Black

PRODUCT USES

SafeKote is an anti-slip paint, ideal for:

- Steps
- Decks
- Walkways
- Bathrooms
- Ramps
- Boat Decks
- Stowage areas
- On slippery floors exposed to water such as showers, change rooms and ablution blocks.
- Clear SafeKote is ideal for providing a anti-slip coating on surfaces such as marble, wood or any other substrate with an aesthetic surface.

ADVANTAGES

- Small silica non slip particles which are not painful to walk on with bare feet.
- Easy to apply; simply apply by brush or roller.
- Bonds to fibreglass, wood and most other surfaces without a primer.
- Can be overcoated or repaired.
- Resists diesel, petroleum and many solvents, good resistance to organic and inorganic acids.
- Abrasion resistant.
- Easy to clean.
- Good inherent flexibility to allow for substrate movement.
- Fast drying and cure; trafficable after only 4 hours.
- Tough and weather resistant.
- Colour-fast.
- Will not taint water or food once cured

SLIP RESISTANCE VALUES (SRVs)

Independent testing was done using a portable rubber slip tester designed by the Transport research Laboratory (TRL) of the UK, called the standard Slider 96 (previously 4S).

The Slider 96 pendulum value is related to the potential for slip as follows:

<u>Slider 96 Pendulum Value</u>	<u>Potential for Slip</u>
25 and below	High
25 to 35	Moderate
35 to 65	Low
Above 65	Extremely Low

The above criteria apply under both dry and wet conditions such that the minimum SRV that is deemed suitable for flooring for general pedestrian use is 35 under wet conditions.

The particles used in SafeKote are hollow man-made spheres of silica with a maximum particle size of 300 microns. This coating produced the following SRV's with and without the addition of Saftigrip at the level of 200g per litre:

<u>round silica spheres (SafeKote)</u>		<u>round silica spheres (SafeKote) with Saftigrip</u>	
dry	wet	dry	wet
69	60	75	70

COVERAGE

- 3-4 m² per litre applied in a 2 coat application.
- Coverage will vary depending on the porosity and profile of the surface.
- Three coats are recommended for high wear areas.

SURFACE PREPARATION

Substrates differ significantly, and so all new applications should be tested first. All surfaces must be sound, dry and free of oils or greases. Loose and flaking paint or varnish should be removed. As SafeKote is a moisture-curing product, all substrates must be dry before application of SafeKote.

- Fibreglass: No primer required. Lightly scuff with a scouring pad to remove gloss if necessary.
- Timber: Ensure that any waxy timber treatment products are removed and that the wood is dry before application.
- Old gloss paints and varnish: Abrade to remove all gloss. Solvent wipe.
- Steel: To be free of mill scale, rust, grease and well abraded. Anti-corrosion primer recommended.
- Galvanised steel: Scour with alkaline detergent or galvanised pre-cleaner to a water break free surface. Anti-corrosion primer is recommended.
- Aluminium: Abrade to fresh metal and prime with 2K Primer within 30 minutes.
- Cement: Old and new cement or concrete surfaces must be cleaned, rinsed well, dried and primed with Duraprime, or the first coat of SafeKote applied thinned with 10% thinner.

SafeKote exhibits good adhesion to acrylic, epoxy and polyurethane primers.

APPLICATION

Ensure substrates have been prepared; tests for adhesion completed and areas not to be coated have been masked off. Stir well before use.

SafeKote is best applied with a brush; however a short-hair roller can be used to speed up the process.

Lay the paint out with the roller and use the brush to touch it up.

The product should be applied in two or more thin coats at right angles to one another, ensuring maximum coverage. Do not allow the product to form pools, as the anti-slip particles will not stand proud.

Curing time: SafeKote cures with atmospheric moisture. Depending on temperature and humidity the coating will be touch dry in about 60 – 90 minutes per coat. Light traffic will not damage the coating after 6 hours and full serviceability is achieved after 12 hours. Final strength and chemical resistance is achieved after 3 to 4 days.

Overcoating and repair: SafeKote can easily be repaired or overcoated. The old surface should be well cleaned and then wiped with Xylene just prior to application.

CLEANING

If thinning is necessary, use up to 10% of Xylene. Do not use any solvent containing water or alcohols as this will prevent drying.

Spills and brushes can be easily cleaned with Xylene after the drying time but before final cure.

Note: Do not use equipment previously cleaned in solvents other than Xylene with this product, unless completely dry so that no water or alcohols come into contact with this product.

STORAGE

Store under cover out of direct sunlight and protect from extremes of temperature.

In tropical climates the product must be stored in an air conditioned environment.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs.

Treat splashes to eyes and skin immediately.

If accidentally ingested, seek medical attention.

Reseal containers after use.

Use in well ventilated areas and avoid inhalation

TECHNICAL DATA

Pack size	1 litre, 4 litre
No of components	Single pack
Touch drying time	60 - 90 minutes at 25°C and 70% relative humidity
Light foot traffic	6 hours after final coat
Full serviceability after	12 hours
Full cure	3 - 4 days to reach final strength
Overcoating time	Ideal: 60 – 90 minutes at 25°C and 70% relative humidity
Percentage solids	~70% by mass
Percentage VOC	~285g/l
Tensile strength at break	29MPa (ASTM D638)
Elongation at break	175% (ASTM D638)
Service temperature	-40°C to 120°C
Application temperature	10°C to 35°C
Hardness	95 Shore A
Weathering	No change after 1000 hours QUV
Specific Gravity	0,93 g/cm ³
Viscosity	68 to 72 ku (QC release spec) 75 to 85 ku (After 30 days in tin)
Flash point	>27°C
Explosive limits	lower: 2,1 % by vol upper: 11, 5% by vol
Hazardous reactions in uncured state. Reacts with water forming CO ² gas. Open pressurized containers carefully, to release pressure.	Exothermic reaction with amines, alcohols, acids and alkalis
Toxicity	Toxic in uncured state
Thinning	Xylene
Cleaning the coating	Hot soapy water, methylated spirits
Shelf life	18 months
Storage conditions	Cool dry place below 25°C

Technical details above are provided in good faith. The manufacturer is an ISO 9001: 2008 registered company and the products are manufactured to the highest standards using raw materials of superior quality. Consequently they believe in the quality of their products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst they are confident in guaranteeing the quality of their products, they cannot however accept any liability for performance failure due to the incorrect application of the products. Correct application is critical to the successful performance of the products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.

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