

PRODUCT DATA SHEET

Sikalastic®-622 Excel Top PLUS

SINGLE COMPONENT, UV RESISTANT, FOOT TRAFFIC BEARING TOP COAT

DESCRIPTION

Sikalastic®-622 Excel Top PLUS is a single component, aliphatic, moisture cured, elastomeric polyurethane coating for use as an exposed UV resistant, traffic bearing wear and top coat over Sika® polyurethane waterproofing membrane for exposed areas and pedestrian foot traffic bearing applications. Sikalastic®-622 Excel Top PLUS can also be used as a high-performance aggregate embedment coat. Sikalastic®-622 Excel Top PLUS provides superior UV resistance and colour stability.

USES

Sikalastic®-622 Excel Top PLUS suitably experienced and trained specialist contractors.

- Decks and ramps for pedestrians
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arenas
- Plaza and rooftop decks
- Balconies

CHARACTERISTICS / ADVANTAGES

- Superior colour retention
- Easy cleanability
- Easy application
- Excellent weather resistance
- Outstanding resistance to abrasion and wear
- Resistant to water and de-icing salts

PRODUCT INFORMATION

Packaging	18.9 Litre metal pails	
Colour	Grey (Resembles RAL 7040)	
Shelf life	12 months from date of manufacture in original, sealed containers, if the storage conditions are met.	
Storage conditions	Store in dry, weatherproof environment, protected from direct sunlight at temperatures between +5°C and +25°C.	
Solid content by volume	74 ± 3%	(ASTM D-2697)
Volatile organic compound (VOC) content	<250 gm/liter	(ASTM D-2369-81)
Viscosity	1,000 ± 300 cps @ 27°C	

TECHNICAL INFORMATION

Shore A Hardness	90 ± 5	(ASTM D-2240)
Tensile Strength	18.6 ± 1.4 MPa	(ASTM D-412)
Elongation at Break	250 ± 50 % (24oC and 50% R.H.)	(ASTM D-412)

SYSTEMS

System Structure	UV Stable Coating	Light Pedestrian Traffic	Heavy Pedestrian Traffic
Primer	SikaTite® Moistureseal / 2 coats	SikaTite® Moistureseal / 2 coats	SikaTite® Moistureseal / 2 coats
Sika® PU* 1st Coat	0.8 mm wet / 0.5mm dry film	0.8 mm wet / 0.5mm dry film	0.8 mm wet / 0.5mm dry film
Sika® PU* 2nd Coat	0.8 mm wet / 0.5mm dry film	0.8 mm wet / 0.5mm dry film	0.8 mm wet / 0.5mm dry film
Sika® -622 Wear Coat	N/A	0.5mm wet / 0.35mm dry film	0.5mm wet / 0.35mm dry film
Aggregate	N/A	0.5- 1kg/m2 seeded / back-rolled	0.5- 1kg/m2 seeded / back-rolled
Sika® -622 Top Coat	0.5mm wet / 0.35mm dry film	N/A	0.5mm wet / 0.35mm dry film

Sika® PU* = SikaTite PU, Sikalastic 488 or Aqua Blok PU100

Aggregate

Use clean, rounded or semi-angular oven dried quartz sand with a size gradation of 20–40 mesh and a minimum hardness of 6.5 per Moh's scale for pedestrian traffic. Seeding of aggregate means an even light broadcast short of refusal. A full broadcast of aggregate means a heavy application to refusal. Any loose aggregate must be removed prior to recoating, back roll aggregate where required.

Dry film thickness 350 ± 10 microns dry film thickness per coat, application coverage rate of 0.40 lt/m2 or 2.5m2/lt

Substrate Temperature The substrate temperature must be a minimum of 3°C above dew point during application and cure.

Substrate Moisture Content Substrate moisture content should not exceed 6% by weight, determine maximum moisture content of substrate with a Tramex CME or CM Expert type concrete moisture meter.

Waiting Time / Overcoating Sikalastic®-622 Excel Top PLUS may be recoated with another layer after the previous coat is tack free, up to a maximum interval of 48 hours after the application of the preceding coat. In case of rain or if the overcoating interval has been exceeded, the surface must be lightly abraded and wiped with Sika® Thinner C, allow to flash off prior to application of the next layer. In the event of unforeseen rain event or delays beyond the stated recoat window referenced in each product's current PDS, observe the following.

Product	Recoat Window	Surface Prep when Recoat Window exceeded
Sika® PU	Tack free to 48 hours	Abrade, Clean and wipe with Sika® Thinner C
Sika® -622 Top PLUS	Tack free to 48 hours	Lightly abrade, Clean and Wipe with Sika® Thinner

Drying time	Allow 16 hours between coats. Allow longer in adverse weather conditions.
Applied Product Ready for Use	Allow a minimum of 72 hours curing prior to pedestrian traffic.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces to be waterproofed must be firm, clean, dry, structurally sound and smooth. All grease, oil, wax, curing compounds, dust, loose material, laitance and other contaminants must be removed. All projections and rough spots should be dressed off to achieve a level surface. The substrate surface must be continuous and not pond water. If in doubt apply a test area first Sika® Polyurethane Base Coat and Top Coats – Coating should be cured and tack free.

MIXING

Thoroughly mix coating using a mechanical mixer at slow speed until a homogenous mixture and uniform colour is obtained (typically 1 minute). Use care not to allow the entrapment of air into the mixture.

APPLICATION

Apply at the recommended coverage rate (see appropriate System Guide) using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Allow coating to cure a minimum of 16 hours at 20°C and 50 % R.H. or until tack free between coats. Allow coating to cure for a minimum of 72 hours before opening to pedestrian traffic.

CLEANING OF EQUIPMENT

Remove liquid coating immediately with a dry cloth, clean tools and equipment with Sika® Colma Cleaner while the material is still wet. Use disposable brushes and roller sleeves. Cured coating can only be removed mechanically.

FURTHER INFORMATION

- Safety Data Sheet (SDS)

IMPORTANT CONSIDERATIONS

LIMITATIONS

- Concrete must be allowed to cure for a minimum of 28 days, depending on curing and drying conditions.
- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 3°C above measured dew point temperatures.
- Ambient and substrate temperature during application and cure must be a minimum of 5°C and a maximum of 35°C.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Product is ready for use, do not dilute or thin with solvents.
- Use properly graded, oven dried aggregates only.
- Do not apply to a porous or damp surface where moisture vapour transmission will occur during application and cure.

- Do not apply if it is raining or if rain is imminent within 8–12 hours of application.
- Allow sufficient time for the substrate to dry after rain or inclement weather.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- Opening to pedestrian traffic or installation of separate wear course prior to final cure may result in loss of aggregate or permanent staining and subsequent premature failure.
- Not suitable for vehicular traffic.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation and priming with a moisture blocking primer - contact Sika regarding recommendations.
- Do not subject to continuous immersion.
- Base coat must be kept clean and recoated within 48 hours, if this window is exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired slip resistance and aesthetics are recommended.
- Contact Sika Technical Service for advice if further information is required.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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