BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-562 IN

Polyurethane liquid applied waterproofing for exposed and covered roofs (Formerly Davco® K10 Polyurethane Plus)

DESCRIPTION

Sikalastic®-562 IN is a water based ,one component cold applied liquid Polyurethane waterproofing membrane that can be applied directly from the container. It provides a seamless, smooth waterproof finish with excellent UV resistance ,excellent crackbridging properties and great aesthetics.It also shows remarkable resistance to ponded/accumulated water and does not get washed away easiliy. It is suitable for both exposed and covered roofing applications .

USES

- Flat and sloping fully exposed or covered roof structures
- Podiums & Planter areas (Concealed)
- New construction and refurbishment projects
- Waterproofing of external walls
- Waterproofing and renovation of old roof tiles
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry

The product can be used on the following substrates:
- Concrete and cementitious substrates
- Brick
- Metal
- Clay tiles
- Unglazed ceramic tiles
- Bitumen sheet membranes
- Bituminous coatings

FEATURES

- Single Component-can be directly used from packaging container
- Excellent crack-bridging and elongation properties
- Cold applied - requires no heat or flame
- Excellent surface finish and aesthetics
- Excellent resistance to UV exposure
- Excellent resistance to accumulated water (does not get washed away when ponded with water)
- Can be reinforced with geofabric for high tensile strength requirements
- Waterbased-Ecofriendly,with no odour
- Foot trafficable
- Vapour permeable

PRODUCT INFORMATION

Composition	Water based Polyurethane ,viscous liquid
Packaging	25 kg and 5 kg container
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened, undamaged and sealed

	packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from frost and direct sunlight.
Colour	White or Grey Other colours like Terracota on request subject to minimum order quantity. **Important:** Applied colours selected from colour charts will be approximate. **Important:** For colour matching, apply colour sample and confirm selected colour under real lighting conditions. **Important:** When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the product finish.
Density	~1.35 kg/L
Solid content by mass	~66 %

TECHNICAL INFORMATION

Shore A hardness	~75	(ASTM D2240)
Tensile strength	~1.5 N/mm²	(ASTM D412)
Tensile strain at break	~250 %	(ASTM D412)
Crack bridging ability	Up to 2 mm	
Tensile adhesion strength	~1.0 N/mm²	(EN 1542)

SYSTEM INFORMATION

System structure

Layer	Product
Primer	Sikalastic®-11 Primer W
Base coat	Sikalastic®-562 IN
Top coat	Sikalastic®-562 IN
(Optional for covered roofs) Protection layer	Suitable protection layer

Important: For larger application areas and high demanding applications, use a glass fabric reinforcement Sika® Fabric-50 between the coats. For normal exposures, usage of Sika® Fabric-50 is optional. Reinforcement (partial or total) must be used over dynamic cracks and joints.
Important: For enhanced dirt pick up resistance and easy cleanability, above build up must be further coated with a thin layer of Sikalastic®-10 Primer W.

APPLICATION INFORMATION

Consumption	~1.5–1.8 kg/m² in two coats, depending upon site conditions
Ambient air temperature	+5 °C min. / +40 °C max.
Relative air humidity	80 % max.
Dew point	Beware of condensation. Substrate temperature and uncured material during application must be at least +3 °C above dew point.
Substrate temperature	+5 °C min. / +40 °C max.
Substrate moisture content	< 6 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). No water / moisture / condensation on the substrate.

Tack free time	~45–60 minutes at +30° C, depending on ambient conditions

Waiting time to overcoating

Base layer	Overcoating layer	Waiting time
Sikalastic®-11 Primer W	Sikalastic®-562 IN	~4 h
Sikalastic®-562 IN	Sikalastic®-562 IN	~4–6 h
Sikalastic®-562 IN	Protection layer	~5 d

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. Low temperature and high relative humidity retard curing, while high temperature and low relative air humidity accelerate curing progression.

Applied product ready for use

Foot traffic	~1 d
Water immersion	~7 d

IMPORTANT
Applied Sikalastic®-562 IN must not be subjected to ponding before 7 days. Contact Sika Technical Services and refer to ASTM D5957 for more information.

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

IMPORTANT
Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

EQUIPMENT

Drill and paddle:
Sikalastic®-562 IN should be mixed for one minute using a drill and paddle.

Solvent resistant short-piled lamb skin roller:
Used in the application of Sikalastic®-562 IN to ensure a consistent thickness of the seamless SikaRoof systems.

Thick hair brush:
For application of Sikalastic®-562 IN to all details and penetrations.

Jet washer:
If dust, vegetation, moss / algae or other contaminants are present on the existing roof, a power washer is required to clean the substrate prior to the application of SikaRoof Systems. Existing chippings should be removed by hand or scabbling prior to power washing.

SUBSTRATE PREPARATION

Cementitious substrate:
- New concrete should be cured for at least 28 days and should have a pull off strength ≥ 1.5 N/mm².
- Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface.
- Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed.
- Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out using appropriate products from the Sika® repair range of materials.
- High spots must be removed by grinding.
- Prime the substrate and preferably use a reinforced system.

Brick and stone:
- Mortar joints must be sound and preferably flush pointed. Use localized reinforcement over joints and prime before applying Sikalastic®-562 IN.

Slates, tiles, etc.:
- Ensure all slates/tiles are sound and securely fastened, replacing obviously broken or missing sections.
- Fully glazed tiles must be abraded prior to priming and subsequent treatment with Sikalastic®-562 IN.

Bituminous felt:
- Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt should not contain any badly degraded areas.
- Prime with SikaShield® Primer S-30 IN and always use a fully reinforced system.

Bituminous coatings:
- Bituminous coatings should not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings. Prime with SikaShield® Primer S-30 IN and always use a fully reinforced system.

Metals:
- Metals should be in sound condition. Abrade the exposed surfaces to reveal bright metal. Use reinforcement locally over joints and fixings. Prime with Sikalastic®-10 Primer EP broadcasted with quartz sand and use an unreinforced system.

Paints or Coatings:
- Ensure the existing material is sound and firmly adhered. Remove any oxidized layers and use localized reinforcement over joints.

MIXING

Primer
Refer to the respective Product Data Sheet.

Coating
1. Stir Sikalastic®-562 IN thoroughly for 1 minute in order to achieve a homogeneous mixture.

Note: Overmixing must be avoided to minimise air entrainment.

APPLICATION

IMPORTANT
Do not apply on roofs with improper slopes leading to long ponding.
1. Sikalastic®-562 IN can be applied on properly sloped roofs subject to short ponding water. Recommended slope of 1 % should be provided to substrate (depending on roof layout and availability of drains and gutters, minimum could be 0.5 % slope).

IMPORTANT
In cold climatic zones, do not apply on roofs subject to ponding water with subsequent periods of frost, otherwise provide slope of more than 3 % or consider using appropriate measures.
IMPORTANT
Do not apply on substrates with rising moisture.
IMPORTANT
Protect the coating from damp, condensation and direct water contact for at least 24 hours.
IMPORTANT
If applied on porous substrates during rising temperatures pin holes may occur from rising air.
1. Apply during falling temperatures.

IMPORTANT
Do not allow temporary ponding to remain between coats on any horizontal surfaces or until the final coating has totally cured.
1. Brush or mop surface water away during this time.

Primer:
1. Apply suitable primer onto the prepared substrate by squeegee, roller or paint brush. Ensure a continuous, pore free coat covers the substrate.
2. (Optional) Apply second coat of primer on very absorbent substrates.

Note: Confirm waiting /overcoating time has been achieved before applying subsequent products.

Waterproofing without reinforcement:
1. Apply first coat directly from container by roller or brush.
2. Apply second coat in same way as first coat preferably applied in cross direction to first coat.
3. (Optional) Apply seal coat for special cases where an aesthetic finishing is required.

Note: Confirm waiting /overcoating time has been achieved before applying subsequent products.

Waterproofing with reinforcement:
1. Apply first coat directly from container by roller or brush.
2. Roll in the Sika® Fabric-50 or Sika® Reemat Premium-225. Overlap it a minimum 5 cm and ensure overlaps are sufficiently wet to bond both layers.
3. Over roll the treated area until the reinforcement is completely embedded in the base coat. The roller may require only a little extra material to keep wetted but no further significant material needs to be added at this stage. The surface of the reinforcement should look wet and fully sealed.
4. Apply second coat in same way as first coat preferably applied in cross direction to first coat.
5. (Optional) Apply seal coat for special cases where an aesthetic finishing is required.

Note: Always begin with details prior starting with waterproofing the horizontal surface.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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