Construction

Sika MaxTack®

Water based high strength grab adhesive

Product Description

Sika MaxTack® is a one part high strength, copolymer dispersion adhesive.

Uses

Sika MaxTack® is a multipurpose high strength, grab adhesive for bonding building materials indoor and in sheltered outdoor areas.

- Sika MaxTack® has strong adhesion on various porous materials such as concrete, mortar, fiber cement, wood and painted substrates of decorative pieces.
- Sika MaxTack® is suitable to bond decorative parts as skirting board, wood frame, panel, terra cotta tile, anodised aluminium, hard PVC profiles, polystyrene moulding and panel, polystyrene ceiling tile, wood stick and moulding.

For other substrates and specific paints: carry out pre-trials.

Characteristics/ Advantages

- Good workability
- Powerful grab properties (green strength)
- Odourless
- Nail free fixing
- For interior use on wall and ceiling
- For sheltered outdoor use on wall (canopy, balcony)
- Over paintable by an emulsion waterborne paint
- Bonds to a wide range of substrates

Product Data

Form

Colour	Off white
Packaging	300 ml cartridge (12 cartridges per box)

Storage

Storage Conditions / Shelf Life	18 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C. Sika MaxTack® must be protected from frost.

Technical Data

Chemical Base	1-part copolymer binder dispersion water based adhesive	
Density	~ 1.42 kg/l	(DIN 53 479)
Skinning Time	~ 30 minutes (+23°C / 50% r.h.)	
Curing Rate	~ 6 mm / 24h (+23°C / 50% r.h.)	
Sag Flow	thixotropic, non-sag	
Service Temperature	-15°C to +60°C (dry)	

Mechanical / Physical Properties

Shear Strength	3.0 N/mm^2; 1 mm adhesive thickness (+23°C / 50% r.h.)	(DIN 52 283)
Shore A Hardness	85 (after 28 days)	(DIN 53 505)

System Information

Application Details

Consumption	Using a nozzle, with 5 mm diameter, bead yields approx.15 m length of adhesive from a 300 ml cartridge (~ 20 ml per running meter).
Substrate Quality	Clean and dry, homogeneous, even, free from grease, dust and loose particles. Paint, laitance and other poorly adhering particles must be removed. Paints and others materials need to be hardened (as example: wood chipboard, cardboard plaster panel) adhering to their substrates and resistant to pull out. Standard construction rules must be observed.
Substrate Preparation	Sika MaxTack® generally has strong adhesion to most clean, sound substrates. If in doubt apply product in test area first. Non porous substrates: Anodised aluminium has to be cleaned with acetone or isopropanol by using a clean towel / cloth. Flash off time of at least 15 min. - max 6 hrs. Porous substrates: Wood has to be sanded, concrete and mortar have to be sanded for removing laitance. In all cases, clean the substrates to remove dust and grease traces. Prefer dust removing by vacuum.

Application Conditions / Limitations

Substrate Temperature	During laying and until Sika MaxTack® has fully cured, substrate temperature must be > +5°C.
Ambient Temperature	+5°C min. / +35°C max.
Substrate Moisture Content	Dry (visually inspected)
Relative Air Humidity	Between 30% and 85%

Application Instructions

Application Method / Tools	Use hand- or air-pressure gun. Apply a round shaped cordon of adhesive (5 mm diameter) to the prepared substrate at intervals of few centimetres. If required distribute evenly with a notched trowel. Press or tap, during at least 3 seconds, part to be bonded well onto the adhesive to ensure good adhesion before a skin occurs. Adhesive layer thickness depending on surface evenness 1 - 3 mm. For immediate fixing, the thickness of bonding adhesive layer must be lower or equal to1 mm. If necessary, use adhesive tapes, wedges or props to hold the assembled elements together in case of heavier elements for the first 48 hours of curing. An incorrectly positioned element can be easily readjusted during 5 minutes after application. Apply pressure again. Fresh, uncured adhesive remaining on surface must be removed immediately with a clean cloth and if necessary cleaned with water
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.
Notes on Application / Limitations	Before bonding, check the good adhesion and resistance of the paints by carrying out a trial on an invisible area. Paints need to fully harden and must be compatible with the adhesive. If there is a doubt, carry out pre-trials or remove the paint by dry sanding. One of the two surfaces must be porous or absorbent compulsory. Bonded material has to be relaxed at any time. Pre-test for over paintability and paint compatibility are recommended. In case of over coating Sika MaxTack® the compatibility must be tested individually on cured adhesive after 24 hours curing at +20°C. Do not use on easy corroding substrates like blank steel, iron, etc. Application during high temperature changes are not recommended (movements during the curing). Service conditions need to be stable (humidity, temperature, load) and not exceed the adhesive and substrates resistance. Optimal bonding after 48 hours curing at +20°C. Do not use on plastified PVC, PE, PP, Teflon, plaster, aerated concrete, brick, galvanised steel ,treated metals, powder coatings, oven dried paints, marble, natural stones, bituminous substrates, natural rubber, chloroprene, EPDM ,building materials which might bleed oils, plasticisers or solvent. and certain plasticized synthetic materials (carry out pre-trials). Do not use Sika MaxTack® : - as glass sealer and on mirror - on floors and sanitary joints - in joints with water immersion or permanent high relative air humidity - for structural bonding.

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Value Base

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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 or access on the Internet under www.sika.co.za.

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