

Technical Data Sheet

Adiseal Hi-Grab adhesive

Product

Adiseal Hi-Grab adhesive is a high-quality, super strong, versatile construction adhesive with extremely high initial adhesion on a polymer base. Specifically for directly fixed and heavy bonding.

Applications

- Specifically for directly fixed material bonding, without clamps, stamps, fixing tape.
- Powerful universal assembly and construction adhesive, for almost all types of building materials.
- Structural bonding in vibrating and non-vibrating constructions.
- Stain-free bonding of mirrors, natural stone, porous types of stone and untreated wood.
- Bonding skirting boards, insulation and board materials, slats, beams, stones, tiles and more.
- Bonding in bodywork, trailer, ship, container and air duct construction.
- Repair adhesive for damaged polymer adhesive bonds.

Properties

- Low odour, blister and shrink-free curing.
- Durable permanently elastic.
- Adheres excellently without primer to almost all, even damp surfaces.
- Extremely high initial tack strength (400 kg/m²), final strength and mechanical resistance.
- User-friendly and versatile for gluing and attaching almost everything indoors and outdoors
- Super-fast force build-up, curing and attainment of final strength
- Can be painted over with dispersion-based paint and varnish systems.
- Isocyanate, solvent and silicone free.
- Does not stain or bleed on porous surfaces, does not cause edge zone pollution.
- Excellent absorption of acoustic and mechanical vibrations/vibrations.
- Perfectly sandable and grindable after complete curing.
- Very low emission, EMICODE EC-1 PLUS certified.
- Durable UV, weather, water, moisture and aging resistant.

Technical product data

Base			Polymer
Viscosity	mm	ISO 7390	<2
Density	g/ml		1.55
Skin formation time	min.	23°C/55% RH	15
Cures in 24 hours	mm	23°C/55% RH	3
Contraction / shrinkage			None
Permissible deformation	%		25
Temperature resistance	°C		-40 / +100
Mechanical values		2mm film	
Shore A hardness		DIN 53505	55
Modulus at 100%	MPa	DIN 53504	1.25
Tensile strength	MPa	DIN 53504	2.70
Stretch at breaking point	%	DIN 53504	400

Shelf life

In unopened original packaging, stored in a cool dry place between +5°C and +25°C, the product will last up to 15 months after the production date.

Application conditions

- Processing temperature (environment and substrate) between min. +5°C and max. +40°C.
- On load-bearing, compatible, clean, grease- and dust-free surfaces.
- It is advisable to apply Adiseal® Hi-Grab adhesive using a high-quality professional caulking gun, in combination with the standard V-seam nozzle because of the low viscosity of the material.
- Apply Adiseal® Hi-Grab vertically (ventilating) in grooves (never in dots), at distance of min. 10cm and max. 20cm, in the ideal glue thickness of 2/3 mm.
- Completely remove loose components from surfaces, using a suitable brush.
- Completely degrease greasy surfaces before applying the product.
- Adiseal® adhesive sealant requires moisture to cure. This is normally obtained from moisture in the air. If using between 2 non-porous materials, it is recommended to spray a little bit of water to a surface to help with the curing process.

Paintability

After skin formation, Adiseal® Hi-Grab adhesive is superbly paintable with emulsion paints. However, synthetic paints may dry slowly. If it will be painted (not necessary), for best results, we recommend lightly sanding the Adiseal® Hi-Grab adhesive and adjacent parts with a Scotch-Brite® pad, then thorough degreasing and painting immediately after this.

Cleaning

Remove fresh/uncured material from surfaces and tools using a thick cloth. Clean hands/skin with wet hand wipes. Cured material must be removed mechanically.

Limitations & recommendations

Not suitable for continuous water loads or glazing or dilation joints. Not fungicidal. Not suitable for PE, PP, PC, PMMA, PTFE, soft plastic, neoprene or bituminous surfaces. Discolouration may occur under certain conditions, such as due to direct contact with chemicals, release of plasticiser from the surface and/or application in dark rooms/spaces. Ensure adequate humidity in the immediate environment. We recommend testing the adhesion and the material and paint compatibility in advance.

While Adiseal Hi-Grab cures effectively underwater, it is not designed for permanent, continuous submersion where the adhesive is the primary exposed barrier. For long-term submerged applications like swimming pool tiles, ensure a secondary barrier (such as grout) prevents direct, constant water contact with the cured bond.

Health & safety

Avoid long-term contact with skin. If uncured material gets in your eyes, rinse out with plenty of water and consult a physician.

The product safety data sheet is available at <https://adiseal.com>

Warranty & liability

Adiseal Ltd guarantees that its product will meet the specifications during its shelf life. Liability shall never exceed that stipulated in our terms and conditions of sale and supply. Under no circumstances shall the seller be held liable for any consequential damages. The information provided is the result of our testing and experience and is general in nature. However, it does not entail any liability. Users are responsible for performing their own tests to determine whether the product is suitable for the application.

Certifications

EN 15651-1: F-INT
VOC emission class A+
EMICODE EC1 PLUS

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