



ADHERE BONDS
The Versatile Construction Chemicals



ADHERE BONDS 1K NANOFLEX

Certified, Eco friendly ,breathable ,anti alkali and chlorine –resistant, mineral membrane for the flexible waterproofing with high levels of adhesion and durability of surfaces before laying tiles using adhesives, ideal for use in green building .single component with low CO₂ emissions andvery low volatile organic compound emissions ,recyclable as an inert material at the end of its life.

ADHERE BONDS IK NANOFLEX develops a smooth creamy mixture paste consistency can b adjusted by varying the amount of water in order to achieve optimal work ability as per the particular site conditions .Guarantees maximum adhesion to the bonded system.

Product strengths

- Floors and walls, for internal and external use.
- Breathable
- Crack bridging ability even at low temperatures
- Specifically intended for laying using ADHERE BONDS Tile Adhesive No Limits
- Suitable for overlaying
- 30% better coverage than two component systems
- The Advance technology, makes it complete water repellent,Chemically stable and permanent elasticity

Eco Notes

- Formulated with locally –sourced Minerals meaning lower green house gas emission during transportation.
- Can be recycled as mineral inert material avoiding waste disposal costs and environmental impact.
- Single component avoiding the use of plastic cans reduces CO₂ emissions and the need to dispose of special waste.

Note:

Whilst any information and / or specification contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendation or suggestions made by us, our representatives, agents or distributors as the conditions of use of any labour involved are beyond our control.

Areas of use

Use:- Terraces, balconies, horizontal surfaces and swimming pools on monolithic cement-based screeds, existing floors covered with ceramic/vitrified tiles and marble stone, dimensionally stable natural stone well-anchored to the surface and clean, cement-based plasters/renders and cementitious mortars, aged concrete.

Do not Use :- On gypsum on metal or wood substrates, on bituminous sheeting, to waterproof exposed surfaces subject to foot traffic, on low-density screeds, on insulation layers on inverted roofs made with insulating panels or low-density materials, in swimming pools and tanks used to hold exposed water.

INSTRUCTIONS FOR USE

Preparation of substrates

The surface must be perfectly cured and dry, solid (i.e. free of weak or easily removable parts) and free from oil, grease, paint and de-bonding agent. When working on weakened parts, when parts of the substrate are missing and also in the case of gravel beds, the substrate must be restored with suitable products. Correct uneven areas with suitable finishing products. On ceramic substrates all traces of surface treatments such as wax and oil must be removed. The most suitable cleaning methods are sandblasting, mechanical scarification or washing with detergents and jet washing. Before application damp absorbent surfaces without letting any stagnant water.

Take due care to waterproof perimeter joints, expansion and Waterproofing tape joints using bonded with ADHERE BONDS Ik NANO FLEX

Use the special pieces to waterproof external angles, internal angles and connections to drains. Any structural joints must first be waterproofed

Adhere Bonds
Coats Pvt Ltd





ADHERE BONDS
The Versatile Construction Chemicals

Preparation Prepare ADHERE BONDS 1K NANOFLEX in a clean container by pouring in approximately $\frac{3}{4}$ of the water required. Gradually add ADHERE BONDS 1K NANO FLEX to the container, mixing the paste from the bottom upwards with a low-rev ($\approx 400/\text{min}$) agitator. Add more water until the desired consistency is obtained. The mixture must be of smooth consistency and without any lumps. Application ADHERE BONDS 1K NANOFLEX should be applied with a brush or a plain trowel on a previously prepared surface. Apply the first coat about 1 – 2 mm thick, pressing down to ensure maximum adhesion to the substrate. Once hardened and after removing any surface condensation, apply the second coat of ADHERE BONDS 1K NANOFLEX. Apply a continuous, even layer about 2 – 3 mm thick covering the surface completely. When waterproofing with geofabric mesh 40gsm, submerge the reinforcing mesh fully in the first layer of freshly applied ADHERE BONDS 1K NANOFLEX, pressing down with the trowel. The subsequent fixing of the covering should be placed at least 24 hours after the last layer has been applied, ADHERE BONDS range eco-friendly mineral adhesive. When working in low temperatures and with high humidity, the waiting time before lying will be longer. If rain falls on the product before it is fully hardened, check it is ready before applying the next coat/covering. Cleaning Residual traces of ADHERE BONDS 1K WATERPROOFING can be removed from tools with plain water before the product hardens.

Appearance	light grey ready-mixed waterproofing product
Apparent volumetric mass	1 kg/dm ³
Mineralogical nature of inert material	silicate - crystalline carbonate
Shelf life	≈ 12 months in the original packaging in dry environment
Pack	20 kg bags /Pail
Mixing water	$\approx 5 - 6 \ell / 20 \text{ kg bag}$
Viscosity	$\approx 60,000 \text{ mPas} \cdot \text{sec}$
Specific weight of the mixture	$\approx 1.5 \text{ kg/dm}^3$
Pot life	$\geq 1 \text{ hr}$
Temperature range for application	From +5°C to + 35°C

Note:

Whilst any information and / or specification contained herein is to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendation or suggestions made by us, our representatives, agents or distributors as the conditions of use of any labour involved are beyond our control.

Substrate residual humidity	$\leq 4\%$	
Minimum total thickness	$\geq 2 \text{ mm}$	
Maximum thickness per layer	$\leq 1.5 \text{ mm}$	
Waiting time between 1st and 2nd coat	$\geq 6 \text{ hrs}$	
Waiting time before laying the covering*	$\geq 24 \text{ hrs}$	
Interval before normal use	$\approx 7 \text{ days} / \approx 14 \text{ days}$ (swimming pools)	
Application temperature range	from -20 °C to +90 °C	
Coverage	$\approx 1.15 \text{ kg/m}^2 \text{ per mm}$ of thickness	
PERFORMANCE		
Initial adhesion	$\geq 2 \text{ N/mm}^2$	EN 14891-A.6.2
Adhesion after contact with water	$\geq 1 \text{ N/mm}^2$	EN 14891-A.6.3
Water-resistance	No Penetration	EN 14891-A.7
Breath ability		
water vapour permeability coefficient (μ)	≈ 820	UNI EN ISO 7783-1
Crack Bridging in standard conditions	$\geq 0.75 \text{ mm}$	EN 14891-A.8.2
Crack Bridging at low temperatures (-5 °C)	$\geq 0.75 \text{ mm}$	EN 14891-A.8.3

Adhere Bonds
Coats Pvt Ltd

