

REGUPOL adhesive 46-101

Acoustic Adhesive



Technical Data Sheet

PRODUCT DESCRIPTION

REGUPOL adhesive 46-101 represents the very latest development in Hybrid Polymer technology and has been formulated to give the highest levels of performance in terms of bond strength, versatility across many combinations of materials, improved acoustic performance in acoustic installations, resistance to stresses, fast curing speed and ease and cleanliness of use.

Subjected to the most intensive testing and development process, REGUPOL adhesive 46-101 represents the premium solution for bonding of acoustic flooring products and materials, by means of enhancing the acoustic performance of the entire system.

When specifying an adhesive consideration should be given to the temperature range that a floor may be subjected to. REGUPOL adhesive 46-101 meets the needs of demanding applications as it has excellent high and low temperature resistance, (+90°C to -40°C) which makes it suitable for underfloor heating, underfloor cooling and areas where floors may be exposed to temperature extremes such as being in direct sunlight.

Designed specifically for use with the REGUPOL barrier 99-201 sub-floor preparation product, the overall package is simply the best performing, fastest curing system available.

Designed for full surface bonding of REGUPOL* acoustic underlays to subfloors including concrete, chipboard, sand/cement screeds, fast setting screeds, anhydrite screeds, timber, cementitious particle board and many other similar materials*. REGUPOL adhesive 46-101 is also suitable for full surface bonding of most types of floor finishes to REGUPOL* acoustic underlays including Parquet, Engineered Timber, Ceramic, Porcelain, stone, marble, plywood, chipboard and many others for the full range of applications please consult the CMS Danskin Acoustics Technical Team.



REGUPOL adhesive 46-101 is suitable for use with REGUPOL barrier 99-201 where required.

REGUPOL adhesive 46-101 is a single-component adhesive that self-cures to form an elastic and non-shrinkable adhesive layer. The adhesive itself is water resistant but should never be used as a replacement for REGUPOL barrier 99-201 where one is required. The adhesive is specifically designed to accommodate the seasonal movement of most types of sub floors and floor finishes. The adhesive is suitable for all wood species according to BS EN 13556 and the full REGUPOL range.

TECHNICAL DATA

Base	Modified Silane Polymer
Colour	Straw
Appearance	Thixotropic paste
Coverage	1kg/m ² approx. depending on subfloor and trowel notch size*
Curing/drying	Chemical self-curing – minimum of 12 hours for foot traffic 24 hours before load bearing or sanding/finishing
Open/working time	@ 30 minutes at 21°C and 50% RH. Product is tack-free after 60 mins
Temperature Resistance	-40°C to +90°C (+120°C for a short period) when cured
Specific Gravity	@ 1.6g/cm ³ Total Solids: 100% (solvent free)
Tensile strength	[N/mm ²] (ISO 37 DIN 53504) 1.4
Shear strength	[N/mm ²] (wood-wood; DIN 14293) 1.6
Tear strength	[kN/m] (ISO 34-1) 0.51
Application temperature	From +5°C to +40°C, (subject to floor covering manufacturers recommendations)
Cleaning	Easily cleaned, when wet, from hands and tools with builders' wipes
Shelf Life	12 months unopened packaging in a cool, dry place at between +5°C and +25°C

*Trowel sizes: use B1 for smooth floors and best coverage / B3 or B6 for less even floors and a higher bead height.

SUBSTRATE

Before installation of the flooring, the substrate must be checked to ensure it is suitable and complies with all recommendations laid down by the flooring manufacturer. In accordance with BS 8201, check the moisture content through the entire thickness of the sub-floor with a carbide or electric hygrometer. The moisture content must be as recommended by the flooring manufacturer

REGUPOL adhesive 46-101 should be applied to an even, dry, clean, and smooth substrate which is free from irregularities and cracks (under 75% RH or to a floor that REGUPOL barrier 99-201 has been applied up to a maximum level of 97% RH). Residues of old adhesive may affect the adhesion and must be removed mechanically. Loose or damaged surfaces must be repaired before application of adhesive. Smooth surfaces such as anhydrite should be roughened and if not already done, surface laitance should be mechanically removed, except in cases where a second-generation product has been used and it is clearly identified that this is not necessary.

When installing a floor on top of marble, terrazzo, or ceramic tiles, they must first be cleaned with caustic soda or another suitable cleaner. Once cleaned rinse the tiles thoroughly with plenty of clean water. Ensure the floor is completely dry before applying the REGUPOL adhesive 46-101.

A preliminary compatibility test is recommended on every surface.

FLOORING

The flooring must be acclimatised according to the manufacturer's instructions. All other parameters such as moisture and humidity levels, temperatures etc must in all cases be within the parameters specified by the flooring materials suppliers.

When laying wood, a gap of 2 cm (or as recommended by the wood manufacturer) around the perimeter of the laid parquet, including any columns or structures which penetrate the floor.

APPLICATION

REGUPOL adhesive 46-101 should be used to bond REGUPOL acoustic underlays to subfloors by applying the adhesive to the subfloor and laying the underlay into the wet adhesive.

The floor finish should be bonded to the REGUPOL by means of applying the adhesive onto the REGUPOL and laying the flooring finish onto the wet adhesive.

Adhesive to sub-floor:

Adhesive must be allowed to reach room temperature before application. Apply the adhesive to the surface by means of the notched trowels described above. Do not apply more than can be covered with REGUPOL or the flooring in 30 minutes. Place the REGUPOL or flooring into the adhesive layer and consolidate the bond by means of pressing. Adhesive should be allowed to cure for a minimum of at least 24 hours before accepting foot traffic or applying second layer. Once installation area is laid, press immediately in two directions (at right angles to each other). This is to remove any trapped air and ensure good all-over adhesive contact.

Adhesive to REGUPOL:

Adhesive must be allowed to reach room temperature before application. Apply the adhesive to the surface of the REGUPOL by means of the notched trowels described above. Do not apply more than can be covered with the flooring in 30 minutes. Place the flooring into the adhesive layer and consolidate the bond by means pressing. Adhesive should be allowed to cure for a minimum of at least 24 hours before accepting foot traffic. Once installation area is laid, press immediately in two directions (at right angles to each other). This is to remove any trapped air and ensure good all-over adhesive contact. It is recommended that the adhesive bonding the underlayment to the sub-floor is allowed to cure before applying the final floor finish to the underlayment. Ideally the underlayment should be left overnight with the final floor finish applied the following day.

For underlayments pressing should be conducted using a 68Kg roller. For Carpets & Carpet Tiles a weighted glider should be used.

INSTALLATION CONSIDERATIONS

- Never install to substrates which are not protected against possible rising damp. To ensure adequate protection it is best practice and is recommended to use REGUPOL barrier 99-201 in all cases prior to laying the adhesive.
- Do not apply the adhesive at temperatures below 15°C or above 25°C.
- Minimum temperature of the substrate should be 15°C
- Avoid installation onto substrates where the moisture is outside of the floor covering manufacturers recommendations.
- Never install wood, which is too dry, (<7% moisture). This can expand at higher humidity and cause damage.
- Do not install if the walls and ceiling of the area are not dry, e.g. after plaster, painting etc.
- Do not dilute the adhesive.
- Always mechanically remove any old adhesive residue before bonding
- Do not bond onto bitumen or other sub floor types that may leech oils, waxes, plasticisers etc, without first sealing the floor and isolating the adhesive from contamination, using a two-part epoxy floor sealer.
- Under floor heating must be turned off for min 48 hours before application and not re-started for 48 hours after the adhesive has been applied.
- Floor manufacturers recommendations to be followed regarding re-starting heating.

