

EUCOCOL MS

MS POLYMER BASED ADHESIVE KIT

FIELD OF APPLICATION

EUCOCOL MS is an MS-POLYMER based adhesive kit that adheres to various dry and moist surfaces. Particularly suitable for bonding EUCOCHEM bentonite-based and synthetic preventive swelling tapes or FPO joint tapes.

- Extremely suitable for bonding bentonite-based and synthetic swelling tapes.
- Bonding and mounting of different materials.
- For construction companies, tiles, interior construction, structural work, finishing, roofers, industry, electricity-, plumbing and heating installers, insulation works (PS, PUR, PIR, mineral wool, wood wool cement, ...), DIY ...
- Sticks without primer onto almost all surfaces such as: glass, glaze, wood, natural stone, concrete, metals, plastics, stone, brick, ...

BENEFITS & FEATURES

- Very good adhesion, both on dry and slightly moist surfaces (no free standing water).
- Permanently elastic.
- Does not cause corrosion when in contact with metal.
- Good strength after curing.
- Can be applied inside and outside
- Can be painted over with water and solvent based paints.
- UV and weather resistant.
- Easy to use.
- 1-component
- Ready to use.
- Solvent and isocyanate free.

APPLICATION

Application conditions

The substrate and the contact surfaces of the parts to be glued must be solid and dimensionally stable. They must also be free from dust, dirt, grease, formwork oil, ... The processing temperature, the temperature of the environment, the product and the surfaces must be between +5°C and +40°C. Moisture content of the substrate: max 10% - The substrate may be moist but must be free of free standing water.

Tools & complementary products

- Cutter for cutting the nozzle to the desired diameter.
- Kit gun
- If necessary to degrease surfaces: EUCOSOLV MEK or another alternative such as fire alcohol, ethanol, ...

Preparations

Clean the surface of dust, oil, stains, grease and other impurities. Remove badly adhering parts of the surface. Degrease the materials to be bonded, the contact surfaces, if necessary. Remove rust and other calamities that

can adversely affect adhesion. Completely remove the free standing water. When in doubt regarding a good adhesion, it is always advisable to perform an adhesion test or to contact your EUCOCHEM representative. Very exceptionally, it is advisable to first apply a primer onto highly absorbent or special surfaces.

Application of the product

Cut the nozzle to the desired diameter suitable for the correct application. Place the cartridge in the kit gun.

For bonding EUCOPREV bentonite and synthetic swelling tapes:

Nozzle diameter: 1 cm.

Apply EUCOCOL MS in a strip with a kit gun to a thickness of about 7 by 10 mm on the concrete surface and this in the middle of the casting joint. Roll out the swelling tapes and press them firmly into the adhesive within 10 minutes. The ends of the tapes should be pressed together with a side overlap of 5 cm. Additional nailing ensures that the tapes adhere even more firmly to the concrete. In hanging applications with EUCOPREV B, use the EUCOPREC B GRID, instead of just nailing or gluing.

For bonding and assembly:

Nozzle diameter: depending on the application.

Apply EUCOCOL MS in vertical strips or in dots on the substrate or on the element to be glued. Distribute the strips or dots regularly. Apply the strips parallel to each other, so that humidity can reach the adhesive between the grooves. Apply the parts to be bonded within 10 minutes (depending on the temperature and relative humidity). The position of material can now be corrected. Then press firmly or tap lightly with a rubber hammer.

Maintain 3,2 mm distance between the parts to be glued (by means of spacers or foam tape), so that the adhesive is able to absorb deformations (important in outdoor applications or under damp conditions). Immediately after application, the internal strength is such that bonding without clamps or temporary support is possible.

Finishing

Immediately remove any uncured adhesive on the outer edges with a putty knife. Cured residue must be removed mechanically.

EUCOCOL MS can be painted wet on wet with the most common water and solvent based paints. Cured adhesive (after 48 hours of curing) must be cleaned before painting. When in doubt regarding a good adhesion of the paint to EUCOCOL MS, it is always advisable to perform an adhesion test. EUCOPAINT ALKYD PAINTS require an extended drying time.

Cleaning of the tools

Remove uncured adhesive with a putty knife. Cured residue must be removed mechanically.

MAINTENANCE AFTER APPLICATION

Remove uncured adhesive with a putty knife. Cured residue must be removed mechanically.

TECHNICAL DATA

Consumption

Consumption depends on the application. 1,56 g/cm³.

Technical data & reaction times

Property	Value	Standard
Basic raw material	MS-Polymer	
Curing	By humidity	
Temperature resistance	-40°C to +90°C	
Moisture resistance	Very resistant	
Frost sensitive	No	
Density	1,56 kg/dm ³	ISO 1183
Application temperature	+5°C to +40 °C	
Skin formation at 23°C and 50%RH	17 minutes	
Curing time at 23°C and 50%RH	2,5 - 3 mm 24h	
Elongation at break	110%	ISO 8339
Max. permissible deformation	20%	In accordance with ISO 11600
Modulus at 100% stretch	1,6 N/mm ²	ISO 8339
Modulus at break	1,70 N/mm ²	ISO 8339
Hardness Shore-A	60	ISO 868
Shear strength (beech/beech)	Initially: 10 g/cm ² After 4 hours: 15 kg/cm ² After 7 days: 32 kg/cm ²	
Tensile strength (beech/beech)	Initially: 300 g/cm ² After 4 hours: 14 kg/cm ² After 7 days: 24 kg/cm ²	
Tensile strength (alu/alu)	After 14 days: 15kg/cm ² After 14 days + 20 min at 180°C: 15kg/cm ²	
Solvent content	Solvent free	
Isocyanate content	Isocyanate free	
Dry matter content	-15°C to +60°C	

Chemical resistances

For more information regarding chemical resistance please contact EUCCHEM BV.

Additional documentation & referrals

Always consult all technical and safety data sheets of the products to be used.

APPEARANCE - COMPOSITION - PACKAGING

1 component - MS polymer Colour: white

290 ml cartridges.

25 tubes/box - Shelf life: 18 months from production date.

Store in a dry place, in the unopened packaging.

ADDITIONAL COMMENTS

Provide good ventilation during application and during curing of the product.

Always work with clean tools in good condition.

Full-time exposure to high percentages of relative humidity may cause mould formation.

Not suitable for joints with a width or depth of less than 5 mm. No adhesion to following surfaces based on PE, PP, PA, PTFE, bitumen.

Do not use on polycarbonate or polycarbonate surfaces.

Do not use for exterior glazing and not compatible with edge sealing or insulating glass. Avoid direct contact.

Compatible with PVB safety glass films, but always perform a compatibility test as the quality and composition of these films can vary.

SAFETY PRECAUTIONS

Always use personal protection in accordance with the local guidelines. Consult the appropriate safety sheets before use. All most recent safety data sheets are always available at www.eucochem.com. When in doubt, contact our technical service.

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