MAPEI

GEV-EMICODE EC 1 PLUS very low emission

Eporip SCR

Fast Track Ready

Two component, quick-hardening, urethane-silicate resin for sealing cracks and joints in screeds and for small repairs

WHERE TO USE

Eporip SCR is a very quick-hardening, urethane-silicate resin with low odour that can be used for:

- sealing cracks and joints in cementitious screeds and concrete floors;
- interior and exterior bonding of concrete, ceramic tiles, stone material, etc. in small repairs.

Eporip SCR is characterized by very quick-hardening which permits to apply the levelling compounds or the adhesives after approx 45 minutes.

Some application examples

- Sealing cracks and joints in cementitious screeds and concrete floors.
- Fixing strips, step profiles, casements, connections and other types of profiles.
- Fixing anchoring bolts and dowels.
- Rapid bonding of concrete, ceramic tiles, stone material, etc. in small repairs.

TECHNICAL CHARACTERISTICS

Eporip SCR is a reactive urethane-silicate resin consisting of two pre-measured components (Component A = sodium silicate, component B = MDI Isocyanate) that can be easily mixed by pouring comp. A into the bottle of comp. B and shaking. After a short waiting time of 2 minutes the crack resin can be directly applied with the nozzle of the bottle into the joints and cracks.

Eporip SCR is adjustable in the consistency depending on the waiting time, from very fluid for small cracks directly after mixing/shaking the product to a higher viscosity to the end of the potlife for bigger joints or gluing applications. **Eporip SCR** has a very good fluidity, which ensures a very good penetration into the screed and therefore a very good bonding.

Eporip SCR is odourless, solvent free, with very low emissions of volatile organic compounds (VOC) and labelled with EMICODE EC1 R Plus.

PRODUCT PROPERTIES

- Odourless.
- Easy preparation and application.
- Variable consistency.
- Very good penetration.
- Very fast hardening.
- Usable without mixing tools.
- Exposure to castor wheels in accordance with EN 12529.
- Solvent free.
- EMICODE EC1 R Plus (very low emission).
- Harmless to the health of the installer and the end-user.

Eporip SCR

Kit made of comp. A and comp. B

Pour comp. A in the bottle of comp. B

Close the bottle and shake well for at least 15 seconds

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	component A	**component B**
Consistency:	fluid paste	fluid paste
Colour:	transparent	brownish
Density (g/cm³):	1,45	1,18
EMICODE:	EC1 R Plus - very low emission	
APPLICATION DATA (at +23°C - 50% R.H.)		
Mixing ratio:	component A : component B = 1 : 1 (by volume)	
Consistency of mix:	fluid paste	
Colour:	yellowish	
Density of mix (g/cm³):	1,315	
Curing time:	10-12 minutes	
Waiting time before the application of levelling compounds or adhesives:	approx. 45 min.	
Application temperature range:	from +10°C to +30°C	
Final curing time:	24 hours	
FINAL PERFORMANCE		
Compressive strength (after 24 h) (kg/cm²):	530	

RECOMMENDATIONS

Do not apply **Eporip SCR** at temperatures below +10°C.

Do not apply **Eporip SCR** on damp surfaces or surfaces which aren't ready for receiving floors.

Do not apply **Eporip SCR** on dusty, crumbling and loose surfaces.

In case of direct sunlight outside, the material will turn to yellowish.

APPLICATION PROCEDURE

Preparing the substrate

To ensure a good bond is achieved with **Eporip SCR**, special care must be taken in preparing the surfaces that need to be bonded or sealed.

The surface must be clean, sound and dry.

All loose and crumbling parts, dust, cement laitance and traces of mould-release, oils and paint must be removed by careful sandblasting or brushing.

When applying the product to metal, remove any rust and grease residures beforehand, preferably by means of sandblasting down to shiny metal.

Preparing the mix

The two components must be mixed together.

Pour component A into the bottle of component B, close it and shake very well for at least 15 seconds, until a smooth and even paste is obtained.

The graduated bottles permit to use smaller amounts for minor repairs.

Applying the mix
The mixed material will start reaction and curing directly after mixing. Initially the viscosity is more fluid and will become continuously thicker. Small cracks can be directly filled, for larger joints wait approx. 3-5 minutes and fill them then quickly within the working time (approx 10-12 minutes).

For ensuring a good bonding of levelling compounds or adhesives onto **Eporip SCR**, sprinkle **Quartz 1.2** or clean, dry sand on the product while still fresh.

Cleaning
Tools can be cleaned with alcohol or **Cleaner H** while still fresh.

Once hardened, the resin can only be removed mechanically.

CONSUMPTION
Depends on substrate roughness and on working methods.
Typical consumption rate is approx. 1.7 kg/l of cavities to be filled.

PACKAGING
Eporip SCR is delivered in 2 bottles (component A + B) with each 300 ml in a box containing 6 bottles, including the curved steel clamps.

STORAGE
Eporip SCR when stored in its original sealed packaging in a cool and dry place has a shelf live of 12 month.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION
Eporip SCR comp. A is irritant for the skin, and it may cause damage to the eyes.
Eporip SCR comp. B is irritant for the skin, the eyes and the respiratory tract; furthermore, it may cause sensitization if it comes in contact with the skin of subjects sensitive to isocyanates and it may cause irreversible damage if used for lengthy periods.
The product does not give off hazardous vapours at room temperature or in normal working conditions. It may become hazardous and cause sensitisation if inhaled at temperatures above +60°C. In the event of sickness seek medical attention.
During use, wear protective gloves, safety goggles and a safety mask to protect the respiratory tract, and use only in well-ventilated areas.
If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. When the material reacts it generates a low amount of heat. We recommend applying the product as soon as possible after mixing components A and B and to never leave the container unattended until it is completely empty.
For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

WARNING
Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE
The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com. ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES.

This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

Our Commitment To The Environment
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

All relevant references for the product are available upon request and from www.mapei.com

Pour the product into the crack using the nozzle

Spread the product evenly to fill the crack

Broadcast the product with Quartz 1.2 or clean sand while still wet so that the next layers adhere more firmly

Eporip SCR

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