



**RAMSAUER®**  
**DICHTSTOFFE**

# 455 FLIESE

- Basis: Neutrally cross-linking alkoxy system
- Shore hardness: ~ 20 (ISO 868)
- Specific weight: ~ 1.02 g/cm<sup>3</sup> (ISO 1183 Method B)
- Movement capability: ~ 25%
- Curing: ~ 3mm / 24 hours (23°C/50 % relative humidity)
- Elongation at break: ~ 200 % (ISO 8339)
- Processing temperature: + 5°C to + 35°C
- Skin over time: ~ 10 minutes (23°C / 50 % relative humidity)
- Packaging: 310ml-cartridges, alternative packaging upon enquiry
- Storage life: 12 months in a cool and dry place in original package
- Colours: transparent, white, silver grey No. 17, joint grey, stone grey, anthracite, sanitary grey, Manhattan, Bahama beige

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## Characteristics

455 FLIESE is used particularly in those areas where the neutral, non-corrosive properties of this sealant are required. The odourless sealant adheres perfectly to all building materials customary in sanitary areas (e.g. anodised aluminium, glazed tiles, glass, tiles, a wide variety of plastics, china, etc.). 455 FLIESE is characterised by particular viscosity resulting in excellent workability, and can be smoothed perfectly. Ramsauer 455 FLIESE contains fungicidal and bactericidal agents protecting the sealant from infestation by microorganisms (mould fungi, bacteria). It is recommended to keep the joint surfaces and adjoining surfaces clean by means of detergents and disinfectants in order to enhance the anti-mould characteristics of the product. 455 FLIESE is resistant to commercially available detergents and disinfectants. After curing 455 FLIESE is physiologically safe and inert.

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## Application

455 FLIESE is used particularly for sealing connection and expansion joints in sanitary areas. Thanks to the neutral curing system the product is also suitable for connection joints between tiles and brickwork, sheet zinc, copper, galvanised sheet metal, iron etc.

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## Processing

Preparation of adherent surfaces: The adherent surfaces must be solid, dry, and free from dust, grease and oil. Apply a primer to the adherent surfaces if required.

Joint design: In case of joints accommodating movement the joint dimensions must be chosen according to the maximum allowed distortion. A minimum joint cross section of 3x5 mm is imperative. In case of joints with low movement (5 %) it is permitted to prepare triangular joints. The applicable standards and guidelines must be complied with. For useful information refer to the Info Sheet No. 3 on Constructive Design and Sealing of Joints in Sanitary Rooms (in German only, "IVD Merkblatt Nr. 3 - Konstruktive Ausführung und Abdichtung von Fugen in Sanitärräumen") which we will be glad to provide upon request.

Introducing the sealant: 455 FLIESE must be introduced into the joint evenly and without bubbles while the product is within the processing temperature range. When priming the substrate take into account the open time of the primer. Ensure good adhesion to the adherent surfaces/joint edges during the finishing work (smoothing with Ramsauer smoother 506).

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## Limitations of application





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455 FLIESE is not suitable for gluing aquariums. Not authorised for sealing drinking water installations. Not suitable for tarry and bituminous substrates (discoloration and/or softening of the system). Compatibility of the product with all materials with which it will be in contact (no matter whether liquid, solid, or gaseous) must be tested before application. Not suitable for sealing natural stone. Take into account the expiry date of the product. 1-component silicone compounds are not suitable for gluing full areas. The curing time increases with the thickness of the layer. Before using the 1-component silicone sealant in layers with a thickness of more than 15 mm get in touch with our application engineering department. Heavy exposure to tobacco smoke or environmental effects may cause discoloration. When replacing mouldy seals make sure that the infested sealant is removed completely and treat the affected joint areas with anti-mould spray "503 Schimmelspray" before sealing the joints again. In case of ceramic substrates with special surface coating adhesion tests are imperative. To be used only with smoother "Glättmittel 506"; Remove any excess material and any smoother flowing down without delay.

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#### Protection at work and health protection

Avoid swallowing and prolonged or repeated skin contact. Keep out of the reach of children. Efficient ventilation is imperative during processing and curing. For more information refer to the current EC Safety Data Sheet. Our data sheets can be downloaded from our website [www.ramsauer.at](http://www.ramsauer.at) at any time, and are available as hardcopy upon request.

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#### Advice for application

In view of the large number of factors which may affect processing and application the user must always try the specific application in an experiment before using the product. Storage and/or transportation of products at increased temperature/air humidity for a prolonged period of time (several weeks) may result in a reduction of storage life and/or changes of characteristics of the product.

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#### Priming table

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##### Substrate

Glass	+
Tiles	+
Pinewood	+
Concrete, wet ground	RP 70
Concrete, smooth according to formwork	RP 70
Steel DC 04	+
Hot dip galvanised steel	+
High grade steel	RP 140
Zinc	+
Aluminium	RP 140
Aluminium AlMg1	+
Aluminium AlCuMg1	Ø
Aluminium 6016	+
Aluminium anodised	+
Brass MS 63 Hardness F 37	+
Rigid PVC Kömadur ES	RP 100
PVC plasticised	+
PC Makrolon Makroform 099	-
Polyacryl PMMA XT 20070 Röhm	WP 40
Polystyrene PS Iroplast	RP 100
ABS Metzoplast ABS 7 H	RP 100
PET	+
PU cut-back quality	+



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Copper	+
Polycarbonate	-
PMMA Röhm sanitary quality	WP 40
Mirrors	-
Natural stone	-

**Legend:** + = adheres well without a primer  
- = not suitable  
WP/RP = Ramsauer primer

This table is based on adhesion tests with test solids of Rocholl corporation under laboratory conditions. Under field conditions the adhesion characteristics are dependent on a variety of external factors (weather, impurities, burdens, etc.). Therefore this table serves for guidance only and does not constitute any binding statement. For more information get in touch with our application engineering department.

#### **Liability for defects**

The information provided including but not limited to the proposals for processing and using our products are based on our knowledge and experience, usually at the time of going into print. The results of work may deviate from this information depending on the specific circumstances, in particular with respect to substrates, processing and environmental conditions. Therefore, neither this information nor any oral counselling shall constitute warranty or give rise to any liability on whatever legal ground for any specific result of work, unless we acted intentionally or by gross negligence. Ramsauer warrants that its products will have the technical characteristics according to the Technical Data Sheets up to their expiry date. Product users must consult the latest data sheet which is available upon request. Our current General Terms and Conditions apply which are available for download on our website [www.ramsauer.at](http://www.ramsauer.at) at any time.