

450 SANITÄR



RAMSAUER®
DICHTSTOFFE

Acetic cure 1-component silicone sealant

TESTS, COMPLIANCE WITH STANDARDS

DIN EN 15651-3 XS1

DIN EN 15651-4 PW20LM Ext.-Int.

DIN EN ISO 846

Tested for application in the food industry

Tested for application in clean rooms

Meets the French VOC-requirements for class A+

Ecodec EC1-R "very low emission"

Certification of compliance for the food industry

TECHNICAL DATA

Basis: acid-curing acetoxy system

Skin-over time: ~ 8 min. (23°C/50 % relative humidity)

Curing time: ~ 2.4 mm/24 hours (at +23°C / 50 % relative humidity)

Density: ~ 1.0 (EN ISO 1183-1)

Shore hardness: ~ 30 (EN ISO 868)

Shrinkage: ~ 6.8% (EN ISO 10563)

Sag resistance: <3

Tear strength: ~ 6.8 N/mm (ISO 34-1)

Stress at break: ~ 0.55 N/mm² (EN ISO 8339)

Modulus: ~ 0.53 N/mm² (EN ISO 8339)

Elongation at break: ~ 350% (EN ISO 8339)

Processing temperature (substrate, environment): + 5° C to + 35° C

Temperature resistance: -40°C to 180°C

Storage life, foil bags and cartridges: 24 months in a cool and dry place

Storage life, 20-litre-hobbocks and 200-litre-drums: 6 months in a cool and dry place

Colours: according to current colour chart

Packaging: 310ml-cartridges and 400ml-foil bags. For packaging units of each colour refer to our current catalogue or go to www.ramsauer.at



CHARACTERISTICS

450 SANITÄR is a sanitary sealant with excellent adhesion to any and all materials normally used in sanitary installation (e.g. anodised aluminium, glazed tiles and tiles in general, glass, a wide variety of plastics, china, etc.). 450 SANITÄR is characterised by particularly high viscosity and excellent workability and can be smoothed perfectly. Sanitary silicone by Ramsauer contains fungicidal and bactericidal agents counteracting infestation of micro-organisms (mould fungus,

bacteria). In order to enhance the anti-mould characteristics it is recommended to keep the joint surfaces and adjoining surfaces clean using detergents and disinfectants. 450 SANITÄR is resistant to commercially available detergents and disinfectants. After curing, 450 SANITÄR is physiologically safe and inert. The product is UV-, weather-, and ageing resistant.

APPLICATION

450 SANITÄR is recommended for sealing joints in wet and moist rooms, for sealing connection and expansion joints subjected to high humidity, e.g. in sanitary facilities, in bathrooms and kitchens, for connection joints of bath and

shower tubs, wash basins, and shower enclosures, as well as for ceramic wall and flooring tiles. Before using the product with laminated safety glass and/or insulating glass units consult our application engineering department.

MEETS THE REQUIREMENTS OF IVD-INSTRUCTION SHEETS

As of the date of publication only No. 14 is available in English, Instruction Sheet No. 3 is available in German only.

No. 3: Design and sealing of joints in sanitary facilities and moist rooms

No. 14: Sealants and mould infestation - Causes, precaution, restoration

450 Sanitär / Version: 01/18

Page:1

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PROCESSING

Preparation of adherent surfaces: The adherent surfaces must be solid, dry, and free from dust, grease, and oil. Prime adherent surfaces carefully if required. The product is not suitable for tarry and bituminous substrates (discolouration and/or softening of the sealant). 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 subjected to low movement (5 %) it is possible to prepare triangular joints. The applicable standards and guidelines as amended from time to time must be complied with.

Introducing the sealant: 450 SANITÄR 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 contact with adherent surfaces/joint edges during finishing work (smoothing with Ramsauer smoother). When using a smoother remove any strips of water immediately after sealing. If cleaning is delayed permanent streaks may remain.

When using the product in colour "ALU" the pigment may cause visual flaws in overlapping silicone layers in the form of dark separation lines etc. This is not a defect or reason for complaints but a typical product characteristic.

LIMITATIONS OF APPLICATION

450 SANITÄR is not suitable for underwater joints in swimming pools and aquariums, not suitable for terrariums. Not suitable for sealing natural stone joints or gluing natural stone (contamination of edges). Not suitable for gluing mirrors. When using the product with metals, in particular brass, copper, lead, zinc, etc. corrosion may occur due to the acetic acid released during curing. The product is not suitable

for tarry and bituminous substrates. Not suitable for full surface bonding. Before using the sealant the user must make sure that there is no incompatibility with any building materials in the contact zone. As far as building materials are concerned which will be used subsequently in the area of the sealant it must be ensured that their ingredients and/or cleavage products will not affect the sealant.

PROTECTION AT WORK AND HEALTH PROTECTION

Avoid swallowing the product and avoid any prolonged or repeated skin contact. Since low quantities of acetic acid are released during curing of 450 SANITÄR, the product must be

used exclusively in sufficiently ventilated rooms. Keep out of the reach of children. Consult our Safety Data Sheet!

SAFETY ADVICE

Consult the current EC Safety Data Sheet which is available at any time on our website at www.ramsauer.at.

ADVICE FOR APPLICATION

Ensure sufficient ventilation during processing and curing. 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. Take into account the expiry date of the product. 1-component silicone sealants are not suitable for full surface bonding. 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. 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. When replacing mouldy joint seals the affected sealant must be removed completely. The affected areas must be treated with mould spray "503 Schimmelspray". Otherwise, the joint may soon be affected by mould again.

PRIMING TABLE

Glass	+
Tiles	+
Pine wood	RP 70
Concrete, wet-ground	-
Concrete, according to form work	-
Steel DC 04	+
Hot dip galvanised steel	-
High grade steel	RP 140
Zinc	-



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Aluminium	+
Aluminium AlMg1	+
Aluminium AlCuMg1	+
Aluminium 6016	+
Aluminium anodised	+
Brass MS 63 hardness F 37	-
Rigid PVC Kömadur ES	RP 100 / RP 105
PVC placticised	-
PC Makrolon Makroform 099	-
Polyacryl PMMA XT 20070 Röhm	RP 40
Polystyrene PS Iroplast	-
ABS Metzoplast ABS 7 H	RP 100 / RP 105
PET	+
PU blend quality	+
Copper	-
Polycarbonate	-
PMMA Röhm sanitary quality	RP 40
Mirrors	-
Natural stone	-

Legend: + = adheres well without a primer
- = not suitable
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 is 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.



QUALITY YOU CAN RELY ON

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