EFFISUS BLOCK JP SEALANT

DESCRIPTION

Effisus Block JP Sealant is a single-component silicon rubber with a maximum emission concentration below 1% and a medium elasticity modulus.
Under the influence of air moisture Effisus Block JP Sealant cures into a permanently elastic and weather resistant sealant virtually odour-free.

TECHNICAL DATA

Technical data	
Curing system	Neutral
Consistency	Highly viscous, stable
Density, g/ml, approx.	1.4
Skin formation time*, min., approx.	10
Time until tack-free*, mín., aprox.	30
Through curing (cross-linking speed) after 24h, mm, approx.	2
Through curing (cross-linking speed) after 7 days, mm, approx.	7
Volumetric change (DIN 52451), %, approx.	5
Shore-A-Hardness (DIN 53505)*, approx.	18
Recovery capacity (EN 27389), %, approx.	95
Admissible overall deformation, %	25
Processing temperature, ºC	+5 to +40
Thermal stability, ºC	-50 to +150

*at a temperature of 23ºC and a relative humidity of 50%

Mechanical properties of a 2mm thick layer according to DIN 53504
Modulus 100%, Mpa ..... < 0.4
Tensile stregth, Mpa ..... > 1.0
Elongation at failure, % ..... > 500

Mechanical properties of a test specimen according to EN 28339
Modulus 100%, Mpa ..... < 0.4
Tensile strength, Mpa ..... > 0.5
Elongation at failure, % ..... > 300

Standards
The material complies with the requirements of DIN 18540 and DIN 18545 part 2 group E.

OTHERS

Properties

Once the reaction has run its course, Effisus Block JP Sealant is highly resistant to UV-ageing and all weather conditions.
Effisus Block JP Sealant is resistant to short-term exposure to diluted acids and alkalines (<5%) as well as customary household cleaners. Effisus Block JP Sealant bonds very well with masonry, glass, enamel, tiles, glazed ceramics, various synthetic materials and smooth metals. Its antifungal component provides protection against most microorganisms potentially appearing in damp interiors.

Fields of application

Effisus Block JP Sealant is suitable for sealing flue joints, flashing or connecting sheets, domelight apertures. Aerials, ducts, connecting joints between metal, wood or PVC frames and mineral construction materials. Sealing of glass and metal, wood or PVC frames as well as many other materials. The joint paste is also suitable for the additional sealing of sheet edges (Effisus Braze Membrane and Effisus Ecofacade Membrane), particularly if the sheets were connected with Effisus Bonding KT Adhesive.

Usage

Preparatory treatment of adhesive surfaces:
Surfaces must be clean, capable of bearing, dry, and free from dust and grease. Clean pore-sealed, smooth surfaces using a clean, lint-free cloth or industrial crepe. Observe the cleaner's flash off time. If used on synthetic materials and coatings, please ensure that the solvent does not harm the surface. Prime surfaces thoroughly, if required. On nonferrous metals (copper, brass, etc.), interdependent reactions may occur.

Primer

On absorbent, porous substrates such as plaster and timber the adherent surfaces must be pretreated with silicon primer. Apply the silicon primer using a clean, soft hair brush. On highly absorbent substrates such as aereted concrete, apply a second coat after the first has dried. Please note any further information provided in the silicon primer technical data sheet.

Joint formation

The joint formation needs to comply with the standards DIN 18540 (construction dilatation and connecting joints) or, respectively, DIN 18545 (glazing). For joints with a low overall deformation (<5%), a triangular joint may also be created. Apply a back-filler, if required (closed-cell polyethylene foam). The back-filler needs to be compatible with the joint sealant and may not be water-absorbent. The deformation on the joint sealant may not be hampered in an inadmissible manner. Back-fillers containing bitumen, tar, oil or softeners are not suitable. Once installed, the back-filler needs to provide the required stability for the application and smoothing of the joint sealant.

Smoothing compound

Only neutral smoothing compounds should be used, which do not cause Effisus Block JP Sealant to discolour and do not leave a film on their surface. Bonding with the sides of the joint must not be impaired.

Applying sealant

Effisus Block JP Sealant must be applied to the joint, evenly and free of bubbles, within the processing temperature. If the substrate if pretreated with a primer, the sealant should not be applied until the primer's drying time has passed. A good contact must be made with the sides of the joint by pressing in the sealant and smoothing (tooling). Use as little smoothing compound as possible. The time taken for the sealant to finish reacting depends, among other things, on the quantity of sealant and the ambient temperature. When fresh, surplus material and soiling can be removed using a cleaner, e.g. petroleum ether. Cured material can only be removed using a silicon remover or mechanically. Please note any further information provided on the silicon remover technical data sheet.

OTHERS

Paint Compatibility
Effisus Block JP Sealant is compatible with the usual paints in the sense of DIN 52452 Part 4.
Due to the low deformation capacity of the paint film, we do not recommend that you paint over the whole surface of the sealant. The cracks that may occur in the coating during joint movement can damage the joint seal.

Note
Due to the large number of possible applications and the natural diversity of substrate properties, above all in natural stones (marble, granite, slate, etc.), it is necessary to carry out preliminary tests first. These preliminary tests must be repeated at reasonable intervals as the composition of the paints ands and contact materials can change.

Consumption
Approx. 12m/cartridge for joint with the dimensions 5 x 5mm.
Approx. 3m/cartridge for 10 x 10mm joints.
Approx. 2m/cartridge for 15 x 10mm joints.
Approx. 1m/cartridge for 20 x 15mm joints.

Range of colours
Black

Form of supply
310ml cartridges

Storage and durability
Kept unopened, in the original container and in a cool, dry place, Effisus Block JP Sealant can be stored for at least 6 months.

Limitations of use
Do not use Effisus Block JP Sealant in the following joints: joints which are highly trafficked (by people or vehicles), which are in direct contact with food, for structural joints, underwater joints and for sealing aquariums. Effisus Block JP Sealant does not bond with: PTFE (Teflon), polyethylene, PU foam and silicon.

Occupational health and safety
Contains 2-butanonomix, can cause allergic reactions. Avoid swallowing, lengthy or repeated contact with the skin/eyes. If accidentally it gets in contact with the skin, rub or scrub it off the affected areas and then rinse off with plenty of water. If splashes get in the eyes, hold the eyes wide open and rinse with plenty of water. Consult an ophthalmic optician if irritation persists.
As small quantities of a volatile, irritable substance are released during the processing/curing, it must only be used in well ventilated rooms. We cannot guarantee that damage to health will not occur if high concentrations of this substance are continuously inhaled. Do not allow Effisus Block JP Sealant to get into the sewers. Keep out of reach of children.

Request EU safety datasheet to 91/155/EC!

Notes for users
The information contained in this document is the result of our findings and experience. It is given the best of our knowledge and is intended for use in advising our costumers. However, it is not binding. The information does not replace preliminary tests, which are indispensable for the planned use of the respective product. We reserve the right to make changes for the purposes of improving our products and progress. Furthermore, the user must always check whether the product complies with the applicable statutory regulations and if necessary obtain the required approvals. The user should ensure that they have the respective latest version of this document.