

## Sealant and adhesive

### Product description:

Elastic adhesive and sealant based on hybrid polymer technology. For most indoor and outdoor applications where a more durable and robust sealant is sought. Free from silicone, isocyanates and solvents. ESS SEAL & BOND is approved for food-related applications.

### Applications:

For most applications where a durable and movement absorbing joint is desired. Adheres to most materials such as concrete, stone, ceramics, metal and wood floors in demanding environments such as industry, warehouses and public environments. For marine applications such as sealing of wooden decks. Elastic joining and sealing of joints in floors / steps, container manufacturing, metal construction, appliance and engineering industry, electrical engineering, ventilation technology, air conditioning etc. The sealant has good adhesive properties and is sandable after curing.

### Technical data:

Type	Hybrid polymer	
Curing system	Moisture activated	
Consistency	Viscous/Thixotropic	
Density [g/cm <sup>3</sup> ]	1,51 ± 0,05	
Color	Off White Light gray Concrete gray Beige Brown Black Dark oak	NCS S 2502-Y NCS S 4502-Y NCS S 1505-Y10R NCS S 7010-Y50R NCS S 9000-S NCS S 4020-Y30R
Packaging [ml]	300/600	
Paintable*	Yes	
Curing [24h]	~ 2,5 mm	
Curing [48h]	~ 3,5 mm	
Hardness (DIN 53505) [Shore A]	~ 45	
Modulus (DIN 53504 S2) [N/mm <sup>2</sup> ]	1,5	
Elongation at break (DIN 53504 S2) [%]	~ 300	
Tensile strength (DIN 53504 S2) [N/mm <sup>2</sup> ]	~ 2.6	
Movement capability [%]	± 25	

Tooling time [min]	< 30 min
Loss of volume (DIN ISO 10563) [%]	≤ 4
Working temp [°C]	5 – 40
Application temp, continuous [°C]	-40 to +90
Shelf life cool & dry [months]**	12
Storage temperature [°C]	5 – 20

All values at 23 ° / 50 % RH, unless otherwise indicated

*\* Paintable only given as yes or no in the table. ESSVE always recommends testing before full-scale implementation. Always observe that all product combinations have not been pretested and therefore it is always up to the customer/end-user to check that the paint, varnish or other surface finish is compatible with the product in question. In the case of products containing solvent it is always recommended that barrier primer is used. For MS/Hybrid products, caution should be exercised in the use of Oil-based (alkyd) surface finishes - greatly extended drying times may come into question. Painting over is generally never recommended for all elastic and flexible products. Varnish and paint are rarely elastic and usually crack, in rare cases this can also cause cracks in the underlying joints (joint & adhesive). For MS/Hybrid polymer the best result is achieved when painting over wet on wet within 4 hours after application, after cleaning with acetone all MS can be painted over at any time after curing.*

*\*\* Best before labelled packaging, for products with bag in box an unopened bag applies.*

### Instruction/Application:

Ambient and material temp + 5 ° C ÷ + 40 ° C, best results are obtained at +20 ° C. The cartridge should be at room temperature. Make sure that the substrates to be joined are clean, free of dust and loose particles as well as dry and grease / oil free. If necessary, clean thoroughly, use alcohol, acetone or another suitable quick-evaporating agent that leaves no residue. Naphtha can cause oily skin which can cause adhesion problems. High humidity in concrete and wood impairs adhesion. The joint is bottomed with ex. ESSVE backer rod at the correct depth. To avoid damage to the backer rod, mount it with a blunt and smooth tool.

### Chemical resistance:

**Good:** Water, salt water, aliphatic solvents, oil, grease, diluted inorganic acids and bases (alkali)

**Moderate:** Esters, Ketones, aromatic hydrocarbons

**Not resistant:** concentrated acids and chlorinated hydrocarbons

Weatherproof

### **Cleaning:**

Uncured adhesive could preferably be removed with ESSVE RENGÖRINGSDUKAR but acetone or alcohol can also be used, cured adhesive can only be removed mechanically.

### **Storage:**

ESS SEAL & BOND is best stored in dark, cool and dry conditions. The product can withstand low temperatures, but should not be exposed to freezing temperatures for long periods.

### **Safety:**

See separate safety data sheet

### **Notes:**

*All information in this document is given in accordance with known facts and information at the time of writing. The information is subject to change without further notification. The document is updated continuously in conjunction with regular revision or in the event of major-specific technical changes*

*All advice given by ESSVE should only be seen as indicative and does not mean that ESSVE can be held responsible for the advice provided. It is always the customer's responsibility, at his/her own risk, to decide on the choice of product, usage, applications, etc. The Supplier's advice is only a part of the customer's decision making data.*