

# ESS TACK CLEAR

1-component mounting adhesive with direct load carrying capability

## Product description:

ESS TACK CLEAR is a transparent contact adhesive with direct load-carrying capability - grips before curing. ESS TACK CLEAR is very strong, fast curing, flexible and free from solvents, isocyanates, phthalates and silicone. ESS TACK CLEAR gives a completely clear adhesive joint after curing, which makes it in principle invisible or direct color-matched.

## Areas of application:

For use both indoors and outdoors, in construction and industrial sectors. In applications of steel, metal, aluminium, wood, laminate, cork, plastic\*, concrete, bricks, plaster, ceramics, wood panelling, skirting, panels, signs, insulating and acoustic panels, trim strips, wall linings, thresholds, insulation material, polystyrene, tiles, window sills, shower cabins, toilets, etc. Also suitable for elastic bonding in metal, equipment and machine industries, plastic\* and electrical engineering, ventilation and air conditioning technology, car bodies, vehicle, trailer, container and automobile manufacturing. In all situations with a need of rapid fixing and a strong result. Remains flexible and can handle impact, shock and vibrations, which makes it well suited for e.g. vehicle and marine applications. Perfect for more difficult applications where you do not want to assemble using a mechanical fastening method e.g. mirror adhesive, concealed assembly, overhead assembly, etc.

\* Not PP, PE and PTFE

## Technical data:

Type	MS Hybrid-polymer
Curing system	Moisture curing
Density [g/cm <sup>3</sup> ]	1,06 ± 0,05
Color	Transparent
Package [ml]	290
Paintable*	Yes
Skin forming/Open time [min]	≤ 4
Hardness (DIN 53505) [Shore A]	50
E modulus (DIN 53504 S2) [N/mm <sup>2</sup> ]	≥ 1,1
Ultimate elongation (DIN 53504 S2) [%]	≥ 200
Tensile strength (DIN 53504 S2) [N/mm <sup>2</sup> ]	≥ 2,0
Curing time [mm/24h]	≥ 2

Volume change (DIN 52451) [%]	≤ 4
Application temp [°C]	+5 till +40
Application temp, continuous [°C]	-40 till +80
Shelf life Cool and dry [månader]**	15
Storage temp, ideal [°C]	+5 till +20
Freeze sensitive	No, can handle brief storage in cold temperatures

All values are at 23° / 50% H.R., 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.*

### Application:

Follow the instructions on the package. Temperature during application +5°C ÷ +40°C, the best results are obtained at +20 °C. The product can be applied and used even in freezing conditions but will become thicker and harder to press out of the cartridge, curing times are however always considerably longer at lower temperatures and can, at temperatures below 0 degrees C, take several weeks, you should always consider the risk of condensation and frost on the application surfaces at lower application temperatures. The cartridge should have a temperature equivalent to normal room temperature, but can be heated slightly for higher extrusion rate. Apply in strips or dots, not for full surface coverage. For maximum adhesion, the surfaces must be clean from dust, loose particles, oil, grease and other contaminating materials before applying the adhesive. ESS TACK CLEAR usually attaches on damp or not completely clean surfaces but the end result is in principle Always worse than described above. When used on wet concrete and other "difficult" substrates it is recommended too use primer.

### 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

### **Limitations:**

Avoid thin, unprotected films of adhesive outdoors as the adhesive can crystallize and with that lose its transparent color. ESS TACK CLEAR is not recommended to seal glass.

### **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 TACK CLEAR 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.*