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## ClearSeal Glasklar

Moisture curing medium modulus elastic sealant for indoor use.

Can also be used as a general adhesive for outdoor and indoor use.

- **Excellent adhesion to most materials without primer.**
- **Excellent tooling characteristics**
- **Environmentally favourable with regard to working and indoor environment as well as waste handling and life cycle aspects.**

### TECHNICAL DATA

**Basis:** Silyl Modified Polyether (SMP)  
**Curing system:** Alcohol releasing moisture cure  
**Solvent:** none  
**Consistency:** Gun-grade thixotropic  
**Density:** Approx. 1060 kg/m<sup>3</sup>  
**Solid content:** Approx. 100 %  
**Volume shrinkage:** None  
**Hardness:** Approx. 38 Shore A  
**Joint movement capability:** Total 25 %  
**Service temperature:** -40°C to +90°C  
**100 % Modulus RT ASTM D 412:** 1.0 MPa  
**Tensile strength ASTM D 412:** 2.20 MPa  
**Elongation ASTM D 412:** 250 %  
**Color:** Clear to slightly blue-greenish  
**Standards:**  
EN 15651-1; 2012, F EXT-INT  
Class 20HM

### APPLICATION DATA

**Application temperature:** +5°C - +40°C  
**Humidity limits:** Minimum 30 % RH  
**Tools:** Sealant gun  
**Tooling agent:** Water  
**Joint width:** 5-25 mm  
**Skin formation time:** Approx. 10 minutes (23°C/50%RH)  
**Curing time:** 2 mm per day the first 24 h.  
**Storage life:** 12 months in unopened package in a cool

and dry place between +5°C - +25°C. Frost resistant to -15°C during transport.

### SURFACE PREPARATION

Joint interface must be clean, dry and free from oils, loose aggregates, laitance, release agents, waterproofing and other contaminants.

A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose clean, sound surfaces. Apply a joint backing rod of foamed polyethylene that is approx. 25 % wider than the joint. If the available space does not allow a backing rod, prevent adhesion to the bottom of the joint by other means, e.g. with polyethylene tape.

### DIRECTIONS FOR USE

Both curing and adhesion is dependent on sufficient amount of moisture. If ClearSeal Glasklar is applied under dry conditions or between watertight materials, extra time or moisture might be necessary to obtain optimum cure and adhesion. We always recommend pre-test if you are doing jobs in big scale to ensure best adhesion results.

For concrete façade expansion joints, more elastic and low modulus, Casco Multiseal Byggfog is recommended.

General good adhesion to metals, wood, and synthetic materials.

#### APPLICATION

After the joint is properly prepared, apply the sealant using a caulking gun. Cut the nozzle at an angle and less than the width of the seam. Material must be pressed firmly into the joint to assure complete wetting of the bonding surface. Immediately after application tooling is recommended to ensure firm, full contact with joint sides. The surface can be smoothed with a wet sealant tooling stick or/and sponge.

Take care not to contaminate open joint with water. Use pure water or water with a small amount of soap/detergent. Too much soap can affect the tack free time.

#### DIRECTIONS FOR USE AS AN ADHESIVE APPLICATION

Apply ClearSeal Glasklar in strings or dots. Make sure that moisture has free access to the adhesive. ClearSeal Glasklar will allow many materials to be fixed immediately without any extra fixation. If necessary, support the material to be glued until the adhesive has started to cure.

#### JOINT FILLING PROPERTIES

The excellent joint filling properties of ClearSeal Glasklar give a air tight seal. A nice seal is obtained if a small surplus is squeezed out of the joint and wiped smooth with a rag or spatula. The joint filling properties also allow uneven surfaces to be glued. It should however be noted that a very uneven joint reduces the strength, since the thinnest part will take most part of the load.

#### ELASTIC PROPERTIES

The joint filling and elastic properties of ClearSeal Glasklar allows vibration reducing joints. This often makes ClearSeal Glasklar a superior alternative to much higher strength adhesives, which can suffer from fatigue due to vibration. However, if such a joint is load bearing it should be carefully designed. The construction has to be tested to verify that failure occurs at a vibration intensity (=max. strain and frequency of movement over the joint) of a sufficient safety factor above the intended vibration intensity. Intensity of vibration cannot be replaced by prolonged test time, because it is the strain, not the number of vibrations that gives failure. Important factors in design is surface area and thickness of the joint. Higher

thickness gives better ability to withstand high strain over the joint, hence larger energy absorption.

#### MOISTURE CURE

If water impermeable surfaces should be glued, precautions have to be taken if the width of the joint is more than 5-10 mm. The strings or dots can be applied in a pattern that allows moisture to migrate into the joint. The cure can be accelerated by spraying water on the surfaces to be glued, immediately before applying ClearSeal Glasklar. Maintaining a high RH and temperature will also give a faster and safer cure.

#### HANDLING AND CLEANING INSTRUCTIONS

Remove all excess sealant adjacent to joint and on equipment prior to cure with a rag. White spirit or technical ethanol is used if necessary. Seal Remover is recommended if the sealant has cured, otherwise cured sealant is removed mechanically. On skin, uncured sealant is wiped off with a rag, then wash with soap and water.

Keep out of reach of children.

Do not empty into drains.

#### MAINTENANCE

If the joint has been discoloured or a mildew attack has occurred, it might be necessary to clean the joint by using a detergent e.g. Chlorine or with a mildew cleaner.

If a severe mildew attack is present cut out the damaged area and re-caulk. Avoid cutting through the water sealing membrane beneath.

#### LIMITATIONS

ClearSeal Glasklar not recommended for:

Structural or butt glazing, or similar applications with high UV light exposure and high movements which can affect the adhesion.

For continues exposure of water.

For applications on PE, PP, PC, PMMA, PTEE, Teflon, Neoprene and bituminous surfaces.

Not suitable for use with natural stone.

Long term of UV exposure may cause discoloration and influence UV-stability.

Our information is based on laboratory tests and practical experience and may, as such, be considered a guide in connection with choice of product and working method. As the user's working conditions are beyond our control, we do not assume any responsibility for the results. Our responsibility covers exclusively personal injury or damage to property which actually have been proved subsequent to faults and defects in one of the products manufactured by us.

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Joints less than 5 mm in width or depth.

Swimming pools and the like with water containing chlorine based disinfectants.

Yellowing can occur in the dark and by contact with chemicals

#### ENVIRONMENTAL ASPECTS

For additional health and safety information consult the Safety Data Sheet.

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