



Seal & Bond MS24 ICE

FOOD CERTIFIED SEALANT WITH CURING AT LOW TEMPERATURES

- ✓ MS polymer curing at temperatures up to -20°C.
- ✓ Permanently flexible, even at negative temperatures.
- ✓ Paintable.



Technical Info

- Basis: hybrid MS polymer.
- Color: white.
- Odour: neutral.
- Shore A hardness (DIN 53505): 24.
- E-modulus 100% elongation (DIN 53504 S2): +/- 0.5 N/mm².
- Elongation at break (DIN 53504 S2): +/- 500%.
- Elastic recovery (DIN EN ISO 7389): ≥ 70%.
- Tensile strength (DIN 53504 S2): +/- 0.7 N/mm².
- Movement capability: 25%.
- Consistency (DIN EN ISO 7390): stable to ≤ 3 mm.
- Curing: polymerization by air humidity.
- Application temperature: ambient: from -20°C to +40°C; product: from +5°C to +40°C.
- Skin formation at 23°C/50% RH: max. 30 min.
- Curing (mm):
 - at 23°C and 50% R.V.:
 - after 1 day: 2,3mm.
 - after 2 days: 3,3mm.
 - after 7 days: 6,2mm.
 - at +5°C and 50% R.V.:
 - after 1 day: 1,7mm.
 - after 2 days: 2,5mm.
 - after 7 days: 4,4mm.
 - at -20°C and 0% R.V.:
 - after 1 day: 0,7mm.
 - after 2 days: 1,2mm.
 - after 7 days: 1,4mm.

Product [ICE]

Characteristics

- The curing at freezing temperatures makes it possible to carry out work or repairs in winter conditions, or in cold rooms, without having to heat them up, which means enormous energy and time savings.
- This kit adheres well to most building materials and is permanently flexible. The high movement capacity (25%) and low modulus (0.5 N / mm²) make it a good choice for all seals that are exposed to thermal and hygrical expansion and contraction, or for absorbing mechanical vibrations.

Applications

- Expansion joints in vertical applications, both inside and outside.
- Sealing of connection and expansion joints at negative temperatures.
- Sealing of connection joints and pipe penetrations in cooling and freezing rooms.
- Sealing of HVAC applications.
- Free from allergens and ADI (animal derived ingredients).
- The EC1935 and LFGB food certification make it possible to use the product in areas where food production takes place. This certification offers a higher degree of food safety than the current NSF P1 certification, which - contrary to what is often assumed - does not allow use in production areas. This seal is certified for incidental direct food contact.
- MS24 ICE is very low in emissions (Ecode EC1 +) and contains no harmful, hormone-regulating or allergenic substances.

- Shrinkage (DIN EN ISO 10563): $\leq 3\%$.
- Paintable: yes.
- Density at 23°C and 50% R.V.: $1,53 \pm 0.05 \text{ g/cm}^3$.
- Post-curing chemical resistance: :
 - good: water, aliphatic solvents, oils, greases, diluted organic acids and alkalis.
 - moderate: esters, ketones and aromatics.
 - not resistant to: concentrated acids and chlorinated hydrocarbons.
- Temperature resistance: -40°C to +90°C.
- Frost resistance: to -20°C during transport.
- Shelf life: 12 months, in original packaging stored in cool, dry environment.

Packing

Seal & Bond MS24 ICE white - cartridge 310ml	533500000
--	-----------

Use

- Product temperature between +5°C and +40°C.
- Apply on a clean substrate, free of snow and ice, if necessary clean with Safety Clean and/or Multifoam. FS version if required.

Due to the wide variety of different plastic materials and compositions, as well as materials that are prone to stress cracking, preliminary trials are recommended (plastics, powder coatings, exotic woods and bituminous materials). Do not use on natural stone and not as window seal. First strengthen weak and/ or porous surfaces with Fixapox.

Due to the diversity of varnishes and paints on the market we recommend preliminary tests. Using products based on alkyd resins may delay the drying process. Use Safety Clean for the perfect finishing and for the removal of uncured Novatio polymers. Use Novakleen for finishing on porous materials.

