



RAINBOW

LOW MODULUS NEUTRAL CURE - RAL COLOURED SILICONE

Technical Data Sheet
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RAINBOW - RAL COLOURED SILICONE

PRODUCT DESCRIPTION:

Rainbow silicone is a one part, high quality neutral cure silicone sealant that reacts with the atmospheric moisture producing a flexible rubber extremely resistant.

Rainbow silicone is a food grade silicone and it is safe to use in food preparation areas on an ongoing basis.

Rainbow silicone contains a fungicide additive which protects the silicone against fungal and bacterial growth, allowing the product to be applied in cold room environments and sanitary domestic places.

MAIN BENEFITS:

- Low modulus and high elasticity. Conforms to ISO 11600-F&G 25LM.
- Anti-mildew protection. No staining or colour changes.
- Excellent adhesion to a wide range of substrates without priming.
- UV radiation, weather and ageing resistant.
- Extremely long service life.
- Low odour.
- Non-corrosive.

STANDARDS:

- Conformity to FDA CFR 21 §177.2600(e). (Report IANESCO-15/14124)
- Global migration below legal limits set by Regulation (EU) 10/2011 on materials intended to come into contact with food. (Report IANESCO-15/14123, conformity to EN1186)

FIELDS OF APPLICATION:

Sealing in refrigeration units, cold rooms and food preparation areas.

Sanitary seals in high humidity domestic areas. (Bathrooms and kitchens)

Sealing of joints (interior and exterior) between porous and non-porous substrates, where mildew may grow.

Conventional glazing and perimeter weathersealing of windows and doors.

DIRECTIONS FOR USE:

The substrates must be clean, dry, and free of dust, grease and other contaminant which may affect the adhesion.

Non-porous surfaces (such as aluminium, glass, etc.) should be cleaned with a suitable solvent. Porous substrates (such as concrete, brickwork, etc.) must be mechanically cleaned from loose particles.

Rainbow silicone adheres to most common construction materials without primer. However, a preliminary adhesion test is recommended on every surface. To obtain better adhesion performances or if water immersion is expected, the use of a primer is recommended.

JOINT DESIGN: Expansion joint width should be designed to accommodate the movement capability of the sealant. Use closed cell polyethylene backer foam as a back-up material to limit the sealant joint depth.

After substrate preparation, apply with a professional caulking gun. The joint should be tooled and smoothed before skin formation.

Uncured product may be easily removed with solvents such isopropyl alcohol or "white spirit". Cured sealant must be removed mechanically.

REMARKS:

- It is the users responsibility to determine suitability.
- Do not use Rainbow silicone on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents. (e.g. natural rubber, chloroprene, EPDM, ...).
- There is no adhesion to PE, PP, PTFE (Teflon®). Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.
- Rainbow silicone cannot be overpainted.
- Not intended for structural glazing.

TYPICAL TECHNICAL DATA:

Basis:	Neutral oxime silicone
Consistency:	Non-slump paste
Specific gravity:	Approx. 1,0 g/ml
Skin forming time:	5 – 10 minutes (at 23°C; 50% R.H.)
Curing rate:	Approx. 3 mm/24 hr.
Resistance to flow (ISO 7390):	Approx. 0 mm
Application temperature:	Between +5°C to +40 °C
Service temperature:	-40°C to +150°C
Shore A hardness (ISO 868):	Approx. 18
Microbiological growth (EN ISO 846, proc.B):	0
Tensile properties:	
2mm thickness – ISO 37	
E-Modulus 100%	0,35 MPa
Tensile strength	1,30 MPa
Elongation at break	> 500 %

These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. The time until complete curing may be extended at lower temperature, lower humidity or increasing film thickness.

COLOURS AND PACKAGING INFORMATION:

This product is available in 300 ml cartridges. Other packaging is available under request.

Colours: Translucent, white. Other colours are available on special order.

STORAGE AND SAFETY:

The shelf life is 24 months in the original unopened original packaging, in dry conditions and protected from direct sunlight at temperatures between +5°C and +25°C.

Use in well ventilated areas and avoid skin and eye contact. For further safety information see the corresponding Safety Data Sheet.

Recommendations for use are defined through commonly used standards, intended as a guideline. Due to the great variety of materials and conditions, which are beyond our knowledge and control, we recommend to ensure that the product is suitable for its application, carrying out sufficient previous trials. The application and use of our products is beyond our control, for which are of the exclusive responsibility of the user. If any responsibility were to be considered ours, this would be only for any damages and for the value of the merchandise supplied by us and used by the customer. It is over understood that we warranty the irreproachable quality of our products in accordance with our General Conditions of Sales and Supply.