ROMANO
Indoor & Outdoor Solutions

SPEC SHEET

ROBERTS / SILICONES AND SEALANTS

Maxisil Pool Silicone



RANGE
Maxisil
TYPE
Silicones and sealants
USE IT FOR
Pools, spas, water features and public showers, including underwater joints
COLOURS
White, Off White, Light Grey, Grey, Ivory, Black
SIZES
310 ml
MATERIAL
Neutral cure silicone
CODE
RDX1004B / RDX1004G / RDX1004IV / RDX1004LG / RDX1004OW / RDX1004W

WARRANTY

Ask us for the warranty terms for this product: 03 9720 4633 or sales@romanoios.com.au.

FEATURES

- Resists pool chlorine at disinfection levels
- Extra fungicide for constant wet conditions
- UV resistant
- Use with Primer 1218 on some substrates
- Not for natural stone pools (use Natural Stone)

DIMENSIONS

The dimension drawing and full specifications from Roberts follow on the next page.

The swimming pool silicone

Maxisil® Pool

Technical Data Sheet

Characteristics:

- Neutral-curing 1-component silicone sealant
- Extremely resistant to continuously wet conditions
- Contains extra fungicide
- High resistance to notches, tension and tearing
- Highly resistant to chlorine in the concentration required for swimming pool disinfection
- Non-corrosive
- Excellent adhesion on many substrates, especially in combination with primer, (please see attached table)
- Excellent weathering, ageing and UV-resistance

Applications:

- Sealing of swimming pools, spa baths as well as elastic jointing on edges
- Water Fountains, water features
- High Humidity environments
- Public showers and changing rooms, i.e gymnasiums
- Great for indoor and exterior use
- Not suitable for drinking water applications, please use Maxisil N
- Not suitable for marble or natural stone swimming pools. Please use Maxisil N for stone substrates
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Standards and tests:

- Suitable for applications according to IVD instruction sheet no. 14+17+31+35 (IVD = German industry association sealants)
- French VOC-emission class A+
- Certified according to GOS

Important information:

Before application, the user should ensure the materials in the contact area (solid, liquid and gaseous) are compatible with the sealant and also each other, so as they do not damage or alter (e. g. discolour) each other. If in doubt the user should consult each manufacturer of the surrounding substrates.

During the material curing process, products of the crosslinker are released.
Please ensure good ventilation during application and curing.

Once cured the product is completely odourless, physiologically harmless and unmodified.

The required vulcanization time prolongs with increasing thickness of the silicone layer.
One-component silicones must not be used for full-surface bonding applications, unless special constructional prerequisites are met. If one-component silicones are to be used for thickness layers of more than 15 mm please contact our technical department beforehand.

We recommend washing off the vulcanised sealant with clear water before flooding the swimming pool in order to remove residues of smoothing agent from the surface. Residues of smoothing agent might cause implantation and growth of microorganism and an attack of fungus or mould.

The sealant is heavily equipped with fungicides and resistant to salt water and chlorine in the usual amount used in swimming pool operaration. To minimize an attack of fungus or mould on the sealant, the following indications must be followed: The desinfection of the swimming pool water with chlorine is indispensable. In addition to that, alternative procedures may also be used. In order to prevent an attack of fungus or mould effectively, sufficient chlorine disinfection must be ensured. Alternative procedures such as UV-radiation or ozonization have no disinfecting effect. This is however essential to prevent an attack of fungus.

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Pages from Roberts's own specification. Ask us about this product, we're happy to help.
Romano Indoor & Outdoor Solutions, 4/126 Canterbury Rd, Kilsyth South VIC 3137. 03 9720 4633. sales@romanoios.com.au

Ideal water conditions: Swimming pool: **0.3 - 0.6 mg/litre of free chlorine**; warm water whirlpool: **0.7 - 1.0 mg/litre of free chlorine**; Due to the mechanical properties of Maxisil P the sealant is tolerant to the industry practice of shock dosing. It is also tolerant to sustained 1.2mg/litre – 15mg/litre free chlorine exposure. The function and longevity of a sealed joint depends on many factors, (correct processing, chemical and mechanical stress) over a period of time. We strongly recommend all silicone joints be defined as maintenance joints and as such be regularly inspected in accordance with a maintenance schedule no less then 3 monthly intervals. The pH value of pool water is optimal if the value is regulated to 7.0. Deviations up and down between 6.5 and 7.6 are allowed in fresh-water. Please note: A very strong smell of chlorine indicates an incorrect pH value of the swimming pool water. Please check the pH value and regulate it properly.

Regular water circulation is indispensable. It should always be activated and not be interrupted at any time. Due to interruptions, partial variable chlorine concentrations may occur and may partially fall below the minimum concentration of 0.3 mg/litre. Falling below the minimum concentration causes germination of all existing spores and an attack of fungus or mould. To ensure proper water circulation, the pool water should run constantly over the overflow edge of the pool.

For cleaning purposes, the use of neutral or alkaline detergents is preferable, as fungus multiplies quicker in an acidic environment.
Avoid contact with materials which contain bitumen, which release solvents, e. g. butyl, EPDM rubbers, neoprene and bituminous paint.
When restoring joints contaminated with mould, the existing elastic sealant must be removed completely. Before re-jointing, the affected joint areas are to be treated with Maxisil Anti-Mildew Spray to remove existing fungal spores. Otherwise a new mould attack may again occur in the joints, despite the mould protection technology of the sealant.

Technical properties:

Skin-forming time at 23 °C/50 % RAH [minutes]	~ 6
Curing in 24 hours at 23 °C/50 % RAH [mm]	~ 2 – 3
Processing temperature from/to [°C]	+ 5 / + 35
Viscosity at 23 °C	pasty, stable
Density at 23 °C according to ISO 1183-1 [g/cm³]	~ 1,0
Shore-A-hardness according to ISO 868	~ 20
Permissible movement capability [%]	25
Stress expansion modulus at 100 % according to ISO 37, S3A [N/mm²]	~ 0,3
Tensile expansion according to ISO 37, S3A [%]	~ 700
Tensile strength according to ISO 37, S3A [N/mm²]	~ 1,4
Temperature resistance from/to [°C]	- 40 / + 180
Shelf life at 23 °C/50 % RAH [months]	12

This data is not suitable for the issue of specifications. Please contact Maxisil before issuing specifications.

Pretreatment:

All adherent surfaces must be clean of any contaminant such as release agents, preserving agents, grease, oil, dust, water, old adhesives or sealants and other substances, which could affect adhesion, should be removed.

Cleaning of non-porous substrates: Apply Maxisil Cleaner (airing time approx. 1 minute) using a clean, lint-free cotton cloth.

Cleaning porous substrates: Clean surfaces with steel-wire brush or a grinding disk to remove loose particles.
The adherent surfaces have to be clean, free from fat, dry and sustainable.

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