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This Information Sheet is for products KIN 063, 065, 073, 083, 093

TECHNICAL DATA SHEET:

PRODUCT: SILICONE SEALANTS

Kincora silicone sealants are ready to use moisture curing one component sealant compounds suitable for a wide range of applications

DESCRIPTION:

Kincora silicone sealants are ready to use moisture curing one component sealant compounds suitable for a wide range of applications - they are either High Modulus acetoxycure with medium elasticity, or Low Modulus neutral cure for use in areas where more elasticity is needed.

Kincora Silicones, are supplied in an easy to apply paste form, that cures rapidly to provide a permanently flexible, watertight seal, between a variety of construction surfaces.

INTENDED USES:

Kincora Silicones have excellent adhesion to a wide range of construction and glazing surfaces such as glass, ceramics, aluminium, steel, wood, concrete and some plastic surfaces, and because it contains fungicide, it is particularly suitable for use in sanitary situations such as sealing around baths, sinks, shower units and expansion joints in ceramic tiles. Other uses include sealing of joints in curtain walling and cold rooms.

JOINT PREPARATION:

All surfaces must be clean, dry and sound, and free from oil, dust and any other contamination. In remedial work, previously applied sealant should be completely removed to obtain maximum adhesion.

For glass, glazed ceramics and anodised aluminium no priming is necessary. Clean surfaces with methylated spirit, trichloroethylene or other non-oily solvent, but absorbent surfaces such as concrete, plaster and brickwork should be covered with a thick layer of primer.

APPLICATION:

Cut off end of thread with a sharp knife, avoiding damage to the thread, cut nozzle to desired size

and angle and apply to the prepared joint by applying an even pressure to the gun trigger. If tooling is required, use a concave profiled tool within 5 minutes of application before a skin has formed.

#### JOINT DIMENSIONS:

Joint width should be four times the expected movement, joint width should be twice joint depth.

#### MASKING TAPES:

When tooling, or with porous surfaces where clean up is difficult it may be necessary to use masking tape, which is removed immediately after application before skin forms.

#### BACK UP STRIPS:

For good performance it is essential the correct depth of sealant is used. To achieve this and avoid 3 sided adhesion a backing strip of closed cell polyethylene is recommended, 30% oversize and circular in section. If the joint is not sufficiently deep for a foam back up strip a bond breaker, such as one-sided adhesive polythene tape should be used to prevent adhesion to the back face of the joint. Apply the back up strip after applying primer.

#### LIMITATIONS:

Do not use for sealing aquariums (presence of fungicide), for permanent immersion consult technical department.

Do not use where abrasion or physical abuse will be encountered.

#### DESCRIPTION:

The 3S Sealant is a one-component, moisture-cured silicone sealant which contains a fungicide. It cures at room temperature to form a flexible, medium modulus watertight joint for general sanitary sealing.

#### PARTICULAR PROPERTIES:

The 3S Sealant has been specifically formulated as a sanitary sealant for use in hot humid environments such as kitchens and bathrooms where resistance to fungal growth is necessary.

The 3S Sealant is easily extruded and its rapid curing characteristics enable units to be quickly sealed and put into service. Its smooth, glossy appearance compliments glazed sanitary ware and ceramic tiles.

The 3S Sealant adheres without primer to glass, ceramic, vitreous, surfaces, painted surfaces and anodized aluminium. It offers good resistance to most common cleaning products.

#### APPLICATIONS:

The 3S Sealant can be used on all weatherproofing or bonding applications where protection against fungal growth is sought such as:

- jointing baths, sinks, showers, kitchen furniture, urinals...
- jointing ceramic tiles, plumbing fixtures or cold rooms.

### CHARACTERISTICS:

1. Before curing:

Type of sealant:	acetic
Specific gravity (non cured), approx:	0.97
Flow resistance (EN 27390), mm, approx:	1
Extrudability g/min, approx:	110
(standard NMRPS 495A 3mm/3 bars).	
Viscosity (strain 3000 N/m <sup>2</sup> , 20°C), Pa.s, approx:	80
2. Curing:

Skin formation time, min, approx:	9
Tack-free time. min. approx:	20
Curing rate:	
mm/1st day, approx:	3
mm/3 day, approx:	6.5
mm/7 days, approx:	10
Application temperatures, °C:	+5 to +40
3. After curing:

Shore A hardness (ISO 868), approx:	20
Elastic recovery (EN 27389), %, approx:	95
Joint movement capability, %:	15
Operating temperatures, °C:	-30 to +120
Mechanical properties on a 2 mm thick film (NF T 46002)	
Modulus at 100% elongation, MPa, approx:	0.5
Tensile strength, MPa, approx:	2.0
Elongation at break, % approx:	450
Mechanical properties on slabs (EN 28339)	
Modulus at 100% elongation, MPa, approx:	0.4
Tensile strength, MPa, approx:	0.8
Elongation at break, %, approx:	180
at a temperature of 23°C and for relative humidity of 50%	

### STANDARDS:

The 3S Sealant complies with ISO 846 concerning its fungicide action, and ISO 11600 - 12.5 E.

### PROCESSING:

Joint preparation: The joint faces to be bonded must be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion. Surfaces should be degreased with solvent soaked cloth and then whiped with a clean cloth. To remove dust, use oil-free compressed air.

Priming: Although the 3S Sealant will bond well to most clean and dry surfaces, it is recommended that a primer be used on certain substrates in order to ensure a strong and uniform bond:

- Steel, ferrous metals, Thermoplastic materials: 12078
- Concrete, stone, wood: 12076

On non-porous substrates, the primer should be applied with a cloth or soft brush in a thin and uniform film. On porous substrates apply with a brush ; in the case of particularly porous material apply a second layer after drying.

Joint dimensions: The movement capability of sealant as well as local regulations must be

considered.

Sealant application: For good performance it is essential that the sealant be only bonded to the two facing sides of the joint ; to achieve this, install a backup material (closed cell polyethylene or open cell polyurethane foam). Apply the sealant in a continuous operation, making sure that all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces. This operation should be made with a dry spatula before skin formation occurs.

Excess uncured sealant should be wiped and cleaned with a commercial solvent. Cured sealant can only be removed by scraping (i.e. with a razor blade), or with a special silicone remover product.

#### LIMITS OF USE:

The 3S Sealant must not be used on sensitive surfaces which could react with acetic acid which is released during cure, nor should it be used on materials where migration of constituents can take place e.g. certain rubbers.

The 3S Sealant must not be used for sealing aquariums (presence of fungicide) for this application, use the AQUARIUM Sealant.

The 3S Sealant (once cured) can be used in applications in which there is a risk of occasional short term contact with water-based foodstuffs, but under no circumstances should be used for permanent contact applications.

The 3S Sealant is not recommended where abrasion or physical abuse will be encountered. For all uses in permanent immersion, please consult us.

#### COLOURS:

Translucent, white, anemone, beige, concrete grey, gold, green, red Bordeaux, bronze Bahamas beige, parchment beige, jasmine beige, black, dark brown, brown, light brown, grey, anthracite\* grey, Manhattan grey, light grey, aluminium, bronze.

#### PACKAGING:

The 3S Sealant is available in 310 ml cartridges and in 223 I drums.

#### STORAGE AND SHELF LIFE:

The 3S Sealant has a shelf life of 24 months in cartridge and of 18 months in drums, guaranteed by Rhodia Silicones from its date of manufacture (the expiry date is shown on the packaging), when stored at a temperature between -5°C to +50°C in its original unopened packaging.

#### SAFETY:

Consult the Safety Data Sheet for the 3S Sealant.

#### WARNING TO USERS:

The information contained in this document is given in good faith based on our current knowledge. It is only an indication and is in no way binding, particularly as regards infringement of or prejudice to third party rights through the use of our products.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.

Users are responsible for ensuring compliance with local, legislation and for obtaining the necessary certifications and authorisations.

## TECHNICAL DATA SHEET

### PRODUCT: LMN CONTRACTORS SILICONE

#### DESCRIPTION:

LMN is a low modulus, neutral curing silicone sealant which cures rapidly to form a permanently flexible, highly elastic, durable weatherseal. It is non-corrosive and bonds well to most construction materials without the need to prime.

#### TYPICAL USES:

LMN is suitable for use in medium movement sealing applications such as expansion joints and the perimeter sealing of PVCu window and door frames. Being neutral cure, it is chemically compatible with most construction materials.

#### STORAGE:

Store between + 5°C and + 25°C in dry conditions in original packaging. Shelf - life approximately 12 months.

#### SURFACE PREPARATION:

All surfaces must be clean, dry, sound and free from dust and any other contamination. All surface treatments and protective coatings should be removed. If necessary, clean surfaces with a suitable non-oily solvent. Any previously applied sealant must be mechanically removed.

Joint width and depth should not be less than 3mm. For joint widths of 6mm or more, the joint depth should be half the joint width. Deep joints should be filled with an approved material such as PU FOAM. In movement joints, use closed cell polyethylene foam backer rod to prevent three - sided adhesion. If required, apply masking tape to prevent contamination of adjacent surfaces.

#### APPLICATION:

Cut off the end of the cartridge thread with a sharp knife, avoiding damage to the thread. Cut the nozzle to desired size and angle and screw on to the cartridge. Fit the cartridge into an application gun and apply the sealant to the prepared joint using even pressure on the gun trigger. Ensure good contact to the joint surfaces by tooling the sealant with a spatula or knife. Remove any masking tape immediately after tooling the sealant, before a surface skin has formed. The sealant will be tack free in approximately 30 minutes and will be fully cured within 1 to 5 days depending on the joint depth, humidity and ambient temperature.

#### CHEMICAL RESISTANCE:

LMN is resistant to normal cleaning products. Contact with oils, fats, glycols and fuel oils may cause some softening and swelling, both of which are reversible.

### LIMITATIONS:

- Not recommended for use in contact with bitument, asphalt or marble
- Do not apply to surfaces in direct contact with food
- Not recommended for fixing mirrors (use Mirror Adhesive)
- Do not use in permanently submerged joints
- Do not use for the construction of aquaria
- LMN White may discolour if not exposed to U.V.light whilst curing.

The user is advised to conduct tests to determine the suitability of the product for the intended application.

### CHARACTERISTICS AND PROPERTIES:

Product Name:	LMN Contractors Silicone
Curing System:	Methoxy
Conforming to Standards:	BS 5889 type A (except for loss of volume on cure)
Standard Colours:	Brilliant White, Translucent, Brown, Black
Packaging:	25 x 310ml cartridges per carton
Hardness Shore A:	20
Movement Accommodation:	+ / - 35 %
Application temperature range:	+ 5 to + 40°C
#Service temperature range:	- 40 to + 150°C
Tooling time (approx.):	5 minutes
Tack free time (approx.):	30 minutes
Full cure:	1 to 5 days

### HEALTH AND SAFETY:

Uncured product may irritate the eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Use in well ventilated areas. Keep out of reach of children. Use gloves and protective clothing. Do not ingest.

Whilst every care has been taken in the preparation of this information, no warranty is given or implied in connection with any recommendation or suggestion made herein or by our Representatives, Agents or Distributors. We reserve the right to modify specifications from time to time without prior notice. Users are advised to conduct their own tests in order to determine the suitability of the Product for the intended purpose. All goods are supplied subject to standard Conditions of Sale which are available upon request.