



Polyurethane sealant medium modulus

DESCRIPTION

Single component, elastomer polyurethane sealant for expansion and joints sealant.

APPLICATION

Waterproofing indoor, outdoor for masonry, expansion joints, carpentry etc. Universal joint sealing compound for building construction. Expansion joints in heavy and light prefabrication and traditional masonry.

PROPERTIES

Adheres to aluminum, glass, masonry, wood, etc.

TECHNICAL DATA

INFORMATION ON THE PRODUCT BEFORE APPLICATION

Chemical identity	Polyurethane sealant medium modulus
Physical state	Paste
Skin formation time	Aprox. 60 min (23°C, 50% hr)
Rate of cure	≥3 mm in 24h (23°C, 50% hr)
Resistance to flow	≤3 mm (23°C) ≤3 mm (50°C) (ISO 7390)
Shrinkage	≤ 10 %
Temperature of application	Between 5°C and 40°C
Density	1,3 g/cm ³
VOC	≤80 g/L
Storage	Store in a well-ventilated room and at a maximum temperature of 30°C.
Use before	12 months from production date, in original unopened packaging and protected from humidity.

STANDARD CONDITIONING OF THE PRODUCT

Packaging	600 mL bag (20 units per box, 50 boxes per pallet) Available gun for Rayston Flex 3040 application.					
Colour	Grey, white.					
Consumption	Applicable joint length with 300 mL					
	Joint depth (mm)	Joint width (mm)				
		4	6	8	12	20
	4	19	13	9.7	6.5	3.8
	6	-	8.6	6.5	4.3	2.6
	8	-	-	4.8	3.2	1.9
	10	-	-	-	2.6	1.6

CURED JOINT CHARACTERISTICS

Movement capability	25%
Elongation	>250% (ISO 8339)
Elasticity modulus	0.25 – 0.3 MPa (at 100%) (ISO 8339)
Hardness (Shore)	25-30A
Elastic recovery	>90% (ISO 7389)
Classification	Type S. Grade NS. Class 25. (ASTM C-290) Uses: NT, T1, A and M
Use temperature	Between -20°C and 80°C.

CHEMICAL RESISTANCE

Result: 0=bad resistance, 2.5=medium resistance, 5=good resistance.

Chemical	Result
Acetone	2.5
Ethyl acetate	2.5
Acetic acid (10%)	2.5
Acetic acid (25%)	2.5
Hydrochloric acid (10%)	5
Lactic acid (50%)	0
Nitric acid (10%)	0
Sulphuric acid (5%)	2.5
Orthophosphoric acid (84%)	5
Ammonia (22%)	5
2-butoxyethanol	2.5
Salt water	5
Bleach	5
Hydrogen peroxide	5
Ethanol (20%)	5
Ethanol (100%)	2.5
Ethyl-2-hexanol	2.5
Gasoline	5
Paraffin oil	5
Mineral oil	5
Octanol	0
Formic aldehyde solution (37%)	5
Soda solution (10%)	0
Soda solution (50%)	0
Trichloroethylene	2.5
White spirit	5

SURFACE PREPARATION

The surface must be clean, dry and free of dust, grease or residues. On concrete, wait first for it to cure out and stabilize (minimum 4 weeks). A preliminary test is necessary on siliconized tiles. It is up to the users to check the compatibility with the surface in terms of adherence, chemical compatibility and staining (make a pre-test if required). Size correctly the joint according to the predictable movements and to the capacity of movement. The width of the joint must be between 6 and 40 mm, also for vertical joints. For joints of 10 mm and smaller, the depth of the joint must be equal to its width. For the widths of joints superior to 10 mm respect a depth to width ratio of 2:1.

APPLICATION

If necessary, apply in a thin layer a polyurethane-type primer. We recommend using the primer on mortars and similar materials with smooth surfaces. After the primer is cured, press a flexible backing rod that will not adhere to the sealant. The bottom of backing rod should not show notches likely to cause bubbling. Protect the edges of the joint by adhesive tape for a better finish. Apply the sealant in one layer for joints of small width, in three layers for joints of large width, the two first onto the edges of the joint and the third onto the bottom. Smooth with water free of additives. Press the sealant correctly against the edges and the bottom of the joint while avoiding the air bubbles inclusion. Remove the masking tape. Clean excess material with White Spirit before it dries and cures. Excess dried sealant can be removed by gentle scraping. Can be painted later, after full curing. Use water-based paint (acrylic or vinyl) but test first. Joint movement can in time crack the paint.

SAFETY INSTRUCTIONS

- Contains isocyanates, avoid contact with skin.
- In the event of contact with eyes, clean immediately with water and obtain medical attention .
- Use only in well-ventilated areas.
- Keep out the reach of children.
- Consult the Safety Data Sheet of the product



RAYSTON FLEX 3040



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OTHER INFORMATION

The information contained in this DATA SHEET, as well as our advice, both written as verbal or provided through testing, are based on our experience, and they do not constitute any product guarantee for the installer, who must consider them as simple information.

We recommend to study deeply all information provided before proceeding to the use or application of any of our products, and strongly advise to conduct tests "on-site" to determine their convenience for a specific project.

Our recommendations do not exempt of the obligation of installers to deeply study the right application method for these systems before use, as well as to conduct as many preliminary tests as possible should any doubt arise. The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. In consequence, the installer will be the only responsible of any damage derived from the partial or total in-observation of our indications, and in general, of the inappropriate use or application of these materials.

This data sheet supersedes previous versions



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