



EUCOLASTIC 1SL

SINGLE-COMPONENT, SELF-LEVELING POLYURETHANE SEALANT

EUCLID CHEMICAL

JOINT SEALANTS

DESCRIPTION

EUCOLASTIC 1SL is a single-component, low-modulus, moisture-cure, self-leveling, polyurethane joint sealant. **EUCOLASTIC 1SL** is formulated to be extremely durable in dynamic joints. It provides superior wear resistance to rubber tires and pedestrians in high traffic areas.

PRIMARY APPLICATIONS

- Concrete control & expansion joints
- Sidewalks
- Truck terminals
- Plazas
- Swimming pool decks
- Interior and exterior applications

FEATURES / BENEFITS

- Skins rapidly and is tack-free in less than 5 hours @ 24°C
- Remains adhesively and cohesively bonded during temperature cyclic movement
- Extraordinary movement capability of +100% / -50%
- Ease of application; dispense and walk away, up to a 6% slope

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions @ 22°C:

PROPERTY	RESULT
Rheology ASTM C 639	Semi-self-leveling, holds up to 6% slope
Hardness, Shore A ASTM C 661	40 - 45
Movement Capability ASTM C 719	+100% / -50%
Skin Time	1.5 - 2 hours
Tack Free Time ASTM C 679	<5 hours
Tensile Strength ASTM D 412	1.7 MPa
Elongation ASTM D 412	600%
Tear Strength ASTM D 412	61.3 N/cm
Adhesion to Concrete ASTM C 794	Dry: 54.3 N/cm Submersed: 49.0 N/cm Green: >26.3 N/cm Saturated (SSD): >26.3 N/cm
Stain & Color Change ASTM C 510	No stain/No visible colour change
Effects of Accelerated Aging ASTM C 793	Pass

Appearance: **EUCOLASTIC 1SL** is a single-component sealant available in Grey colour.

PACKAGING/YIELD

EUCOLASTIC 1SL is available in 887 ml cartridges (12 per case). One cartridge will cover 22 m in a 6 mm x 6 mm joint.

EUCOLASTIC 1SL

MASTER FORMAT #:
07 92 13

SHELF LIFE

1 year in original, unpunctured cartridge

SPECIFICATIONS / COMPLIANCES

- ASTM C 920 Type S, Grade P, Class 50

DIRECTIONS FOR USE

Joint Dimensions: Joint width should be 4 times the expected joint movement, but not less than 6 mm. Width to depth ratios should be equal for joints that are 6 mm to 13 mm in width. If joint width is 13 mm to 25mm, the depth of **EUCOLASTIC 1SL** should be 1/2 the width, with 13 mm being the maximum allowable depth of **EUCOLASTIC 1SL**. Use backer rod or bond breaker tape to limit the depth of application and to prevent three-sided adhesion. **Applications of EUCOLASTIC 1SL that are deeper than what is recommended can cause bubbling or incomplete curing of the material.**

Surface Preparation: **EUCOLASTIC 1SL** can be installed in new concrete 24 hours after forms are stripped. The concrete can be damp during application, but do not apply sealant where there is standing water in or nearby the joints. Excess standing water will cause bubbling of the sealant. The joints must be clean and sound. All curing & sealing compounds, oil, dirt, debris, paint, form release agents and any other foreign material must be removed. The final step in cleaning should be the complete removal of all residue by solvent wiping the joint.

Priming: **EUCOLASTIC PRIMER** is required to prime the joint facing when the product will be used on nonporous surfaces (metal, granite, etc.) or when the sealant will be underwater. See **EUCOLASTIC PRIMER** technical data sheet for use instructions.

Mixing: **EUCOLASTIC 1SL** is a single-component sealant and requires no pre-blending. It should be used directly from the cartridge.

Placement: Ensure that all the necessary preparation work is completed. Place backer rod or bond breaker tape into the joints and make sure they are secured in place. Using standard caulking guns, dispense the sealant directly from the cartridge into the joint. Once the joint is full, leave it alone and allow it to self level to a nice and smooth finish. **EUCOLASTIC 1SL** will hold a slope up to 6%.

Curing: **EUCOLASTIC 1SL** requires no special curing. The moisture in the air and substrate will cure the sealant. A skin forms on the surface in about 1.5 to 2 hours at 22°C and 50% relative humidity. It will be tack-free in under 5 hours. **EUCOLASTIC 1SL** cures at rate of about 1.6 mm per day. The cure time will increase or decrease as temperatures and humidity levels fluctuate.

CLEAN UP

Tools, equipment and general clean-up can be done with xylene before the material dries. Removal of dried **EUCOLASTIC 1SL** can only be done by mechanical means.

PRECAUTIONS / LIMITATIONS

- Use only at temperatures above 4°C.
- Contact surfaces must be clean.
- Do not use underneath a polyurethane deck coating unless the sealant has fully cured.
- In all cases, consult the Safety Data Sheet before use.

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