

Technical Data Sheet

RD 3000 – Advanced All-Purpose Sealant – Clear - 0987

Description

An advanced, low-VOC, all purpose sealant with a specially formulated technology allowing it to be exposed to water after only 2 hours without washing out. Also formulated w/ advanced MaxFlex Technology – it won't crack or shrink & provides excellent adhesion, flexibility & durability for a waterproof seal. Cured sealant is mold & mildew resistant.

Key Features

- Lifetime Durability Guarantee
- Water Resistant After 2 Hours
- All-weather, Multi-surface Application
- Interior/Exterior Use
- Paintable
- Mold & Mildew Resistant @ Cure
- Won't Crack or Shrink
- Low VOC Formula
- Low Modulus/High Joint Movement
- Spec-compliant Formula

Uses

Use on wood, plaster, brick, metal, concrete, glass, stone, vinyl, masonry, tile, EIFS, stucco, aluminum & PVC

Surface Preparation

Surface must be clean, dry & free of old caulk, dirt & debris.

Directions

1. Unscrew outer nozzle. Cut inner nozzle @ the thread point furthest away from the base of the nozzle. Re-attach outer nozzle, & cut nozzle @ a 45 degree angle to desired bead size.
2. Load cartridge into caulking gun. If crack is more than a 1/2 inch deep, insert closed cell backer rod before applying sealant.
3. Fill gap w/ sealant, pushing sealant ahead of nozzle. Smooth bead if needed.
4. Allow sealant to cure for @ least 2 hours before exposing to water. Sealant surface may still be tacky. Sealant reaches full cure in 24 hours – lower temperature & humidity will extend curing time.
5. Clean up excess uncured sealant from surface & tools w/ mineral spirits. Follow cautions on mineral spirits label. Wash hands w/ soap & water.

<u>Physical/Performance Property</u>	<u>Test Method</u>	<u>Typical Result</u>
Weight Per Gallon	Gardner Cup	8.80 +/- 1
Specific Gravity	Calculated	0.93 to 1.18
Total Non Volatile % Solids (Weight)	Computrac Analyzer	> 90%
Extrudability/Application (as packaged)	Semco Gun (6 oz @ 50 psi)	Approx 145 sec
Consistency/Appearance	Visual Observation	Smooth, Viscous Paste
Odor	Subjective	Low
Base Polymer	Known	Silyl-terminated polymer/MS Blend
Flash Point	Closed Cup	>200F
Freeze/Thaw Stability	Test Lab 0 F/77 F @24 hrs or ASTM C731	Passes 5 Cycles
Shelf Life	Lab 50 C Oven – Accelerated	Minimum 12 mo @ 72F - unopened
Slump	ASTM D2202 Jig	None
Artificial Weathering	ASTM – QUV Tester	2,500 hrs QUV – no cracking
Flexibility	ASTM 734	Excellent @ -15 F
Tack Free Time	ASTM C679 (max 72 hrs)	Approx. 90 min.
Shore A Hardness	ASTM C661	Approx. 25 +/- 5
Storage Conditions	Test Lab	Below 77F – cool & dry place
Application Temperature	Test Lab	20F to 120F
Service Temperature	Lab Oven/QUV/Freezer/OE Fence	-40F to 200F
Paintability	Test Lab/Field Evaluation	Excellent w/ most industrial & consumer paints; 2 hrs drying (test prior to painting)
Stain & Color Change	ASTM C510 (no visible stain)	Passes
Elongation	ASTM D412	> 900%
Tooling	Test Lab	Caulk smoother or similar tool
Skin Formation	Test Lab	< 60 min
Tensile Strength	ASTM D412	Approx 188 psi
Coverage Per Cartridge	Test Lab – 3/16" bead	Approx 50 linear feet – 3/16" bead
Total Joint Movement	ASTM C719	+/-50%
Curing System	Known	Moisture Cure

Clean Up

Mineral Spirits or IPA before cure. Follow warnings & cautions on solvent containers. Wash hands with soap & water after use

For Best Results

- Due to the wide variety of paints available, a compatibility test before application, is recommended as some paints lack sufficient flexibility to perform atop a highly flexible formulation
- Use w/ adequate ventilation (See MSDS for additional information)
- Avoid skin & eye contact
- Do not apply to frost-bearing surfaces
- Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids & alkalis.
- Treated wood should cure @ least 6 months before application
- Formula free of isocyanates, solvents, halogens & acids
- Best for applications that should be painted w/ water based paints

Color

Clear

Packaging

HDPE Cartridge – 9.0 FL OZ (266 mL)

Limitations

- Poor resistance to aromatic solvents, concentrated acids & chlorinated hydrocarbons
- Solvent Clean up
- Should not be used as a structural sealant or glazing sealant
- Not recommended for applications below the water line/continuous immersion or for sealing/bonding windshields.
- Drying time of alkyd resin based paints may increase.
- Not recommended for use on Plexiglas or Polycarbonate (Lexan) as it may cause stress cracking or crazing. Does not adhere to PE, PP or PTFE (Teflon).

Environmental, Safety & Transportation Information

<u>Criteria</u>	<u>Evaluation Method</u>	<u>Status</u>
CARB Compliance	Documents Review	Yes
Prop 65 Ingredients	Documents Review	Yes (See MSDS)
DOT Proper Shipping Name	Review of Regs	Not regulated by DOT
DOT Hazard	Review of Regs	N/A
DOT UN/NA Number	Review of Regs	N/A
Packing Group	Review of Regs	N/A
VOC Content	Calculated	< 2%/wt, < 35 g/L (chemically curing)

CAUTION: NOT FOR INTERNAL CONSUMPTION. KEEP OUT OF REACH OF CHILDREN & PETS. KEEP FROM FREEZING. WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. (See MSDS for additional information)

Specifications: Meets Fed Spec TT-S-00230C Class A & ASTM C 920 Class 25

LIMITED WARRANTY

Recommendations for use of this product are based on tests we believe to be reliable. Manufacturer and seller are not responsible for results where this product is used under conditions beyond our control. If when applied as directed, this material peels, cracks or separates, it will be replaced without charge upon presentation of proof of purchase and used cartridge. This limited warranty only applies to residential use and damages including consequential damage and other remedies are excluded. No other warranties apply, including fitness for a particular purpose.

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SEE MSDS FOR ADDITIONAL DATA/INFORMATION