Technical Data Sheet

DIAMONDLOCK RFA 300C Adhesive

Description

DIAMONDLOCK™ RFA 300C is a pourable one-component, moisture cured polyurethane adhesive ideal rubber flooring installation. DIAMONDLOCK™ RFA 300C has low viscosity and is easy to trowel with excellent working time and final cure time. DIAMONDLOCK ™ RFA 300C is elastic and offers excellent adhesion to acoustic rubber underlayment systems, concrete, and wood that have been properly prepared.

Where to Use

DIAMONDLOCK™ RFA 300C is an elastomeric one-component polyurethane adhesive that may be used to bond rubber flooring as well as engineered wood including parquet, cork, LVT bamboo hardwood flooring. This adhesive can also be used for other bonding acoustic rubber underlayments for commercial and residential application.

Advantages

- Zero VOC
- Pourable
- One-Component, No mixing required
- Easy to trowel
- Excellent workability
- Low odor
- Non-Flammable
- Fast curing
- Available in 10 kg pails
- Can contribute towards obtaining LEED credits

Properties

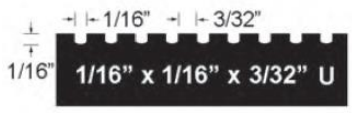
Cure System	Moisture cure
Color	White
Viscosity	550 Pa.s @ 0.1 shear
VOC Content	0
Solvents	0
Specific Gravity	1.5 g/cc
Curing time	10h light traffic is acceptable after 8-10 hrs; normal traffic is recommended after 24 hrs
Sag	Easy to trowel and retains ridges
Service temperature	-20°C ~ 35°C
Mechanical Properties	
Tensile Strength	2.5 MPa
Elongation	270%
Peel Strength (rubber to concrete)	Rubber substrate failure
Bond Strength to concrete	LVT – substrate (concrete) failure Wood – substrate (concrete) failure

These are typical values and should not be construed as specifications.

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Application Details

Recommended Trowel



U- Notch Trowel

Recommended trowel size is to obtain optimum coverage. Larger sizes trowels are acceptable. Check coverage during installation. Trowels should be used at the 90° angle to subfloor to get the coverage mentioned above. Periodically check trowel for wear. Worn trowels should be replaced immediately.

Approximate Coverage

1/16'' x 1/16'' x 3/32'' U notch Trowel: 147 sq.ft./gal.
1.6mm x 1.6mm x 2.4mm U notch Trowel: 3 m^2/L.

Application Conditions

Substrate temperature: The recommended temperature of the substrate should be greater than 15°C and less than 35°C.

Air Temperature: Room temperature between 15°C and 35°C.

Humidity: Humidity in air affects cure to a greater degree than temperature. Lower humidity (<20%) will result in slower curing rate, while higher humidity (> 80%) can result in foaming.

Storage & Shelf Life

Shelf life is 12 months from date of manufacturing in unopened original packaging. Store at temperature between 10°C and 35°C.

Caution

Harmful if swallowed or inhaled. Contains potential sensitizer. May cause allergic reactions to skin and lungs. Irritants to eyes, skin and respiratory tract.

First Aid

Refer to Product label and Safety data sheet for all safety information.

Contact information:
For more information about this product please call The Dow Chemical Company.

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