

Dymonic NT

High performance, one part, low modulus polyurethane elastomeric sealant

Product Description:

Dymonic NT is a high performance, low modulus, one-part, moisture curing, polyurethane sealant.

Basic Uses:

Dymonic NT is a versatile joint sealing compound for building construction used in civil and industrial expansion and connecting joints in architectural and heavy construction, between concrete, brickwork, natural and artificial stone, steel, aluminium, wood, ceramic tiles, rigid plastics etc. Designed for sealing dynamically moving joints in precast construction and curtain walls joints. Suitable for sealing wide vertical joints up to 100mm. Also for perimeter caulking and bedding of windows, doors, panels etc.

Key Benefits:

- One component, ready to use.
- Excellent unprimed adhesion to most building substrates.
- Wide Movement Accommodation: +100% / -50%
- Good resistance to u.v. weathering and ageing.
- Rapid cure, even at low temperatures and low humidity.
- Non-staining on most substrates.

Limitations:

Dymonic NT is not recommended for:

- Prolonged immersion in water.
- Application over damp or contaminated surfaces.
- Exposure to harsh chemicals.
- Special architectural finishes without prior testing.
- Certain grades of marble and stone work without prior testing and additional surface preparation.

Packaging:

600 ml sausages.

Standard Colours:

White, Black, Bluff, Aluminium Stone, Dark Grey

Applicable Standards:

Dymonic NT meets the requirements of BS EN ISO 11600 F-25LM, DIN 18540 F, SNJF elastomere 1ere cat and CAF approved. Conforms to US Federal Specification TT-S-230C, Type II, Class A and ASTM C920 Type S, Grade NS, Class 25 Use NT, G, A and M.

Technical Information:

Composition:

Dymonic NT is a one part moisture curing polyurethane sealant.

Characteristics (Typical Values):

Specific Gravity: 1.28

Performance (Typical Properties):

Consistency (Boeing Jig):	Non-sag
Skin Forming Time (at 23°C, 50%RH):	40 minutes
Cure Rate (at 23°C, 50%RH):	4mm/1st day 10mm/6 days
Tensile Strength:	0.26 MPa
Ultimate Elongation:	634%
Modulus at 100% Elongation:	0.13MPa
Hardness Shore 'A':	15
Elastic Recovery:	89%
Service Temperature Range:	-40°C to 90°C
Movement Capability:	+100%/-50%

Note: Typical Properties should not be used as specifications.

Usage Guidelines:

Joint Design Considerations:

- Joints should be designed in accordance with BS 6093.
- For the purpose of joint width calculation in BS 6093 the MAF of **Dymonic NT** is +100% to -50%.
- For optimum performance, the width to depth ratio of **Dymonic NT** should be 2:1 subject to a minimum depth of 10mm on porous substrates and 6mm on non-porous substrates.
- A maximum depth of 15mm should be maintained for joint widths of 30mm or more.
- Sealant width should never be less than sealant depth.
- For fillet joints the minimum bite onto each surface should be 10mm for porous substrates and 6mm for non-porous substrates.

Surface Preparation:

Joint faces should ideally be clean, dry, sound and free from grease and any other contaminants likely to impair adhesion. Loose friable material must be removed and arrisses made good. Extensive laboratory tests and field experience has shown that **Dymonic NT** exhibits no staining on a number of different substrates. If substrate is unusual, then Equus recommend testing.

Sealant Backing:

Install smooth faced, closed cell polyethylene foam rod under 20% - 30% compression. Sealing backing is installed to prevent sealant adhesion to the rear of the joint pocket "Three Sided Adhesion", control the depth of the sealant and to provide a firm base for tooling.

Priming:

Dymonic NT provides excellent unprimed adhesion to most common building substrates, however, based on the results of in-house testing, a primer may be recommended for certain installations/applications.

Method of Application:

Application should be in accordance with BS 8000:16 "Code of practice for dealing joints in buildings using sealants". Apply between +5°C and +50°C. All beads should be tooled after application to ensure firm, full contact with the joint faces.

Coverage Rate:

Width	6mm	10mm	20mm	25mm
Depth	(min)			
6mm	16.7	10.0	-	-
10mm	-	-	3.0	-
12mm	-	-	-	2.0

(Approximate Linear Metres per 600ml sausage)

Cleaning:

Immediately remove excess sealant and smears adjacent to the joint (use masking tape where appropriate). Equipment may be cleaned with xylol or toluol while sealant is in an uncured state.

Storage:

Store in dry conditions between +5°C and +25°C. The storage temperature should not exceed +25°C for extended periods of time. Keep away from heat sources.

Health & Safety Precautions:

Material Safety Data Sheet must be read and understood before use.

Warranty:

Tremco warrants its Sealants to be free of defects in materials, but makes no warranty as to appearance or colour. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of Merchantability and fitness for a particular purpose, with respect to Tremco Sealants. Tremco's sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of Tremco Sealant proven to be defective and Tremco shall not be liable for any loss or damage.

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