PRODUCT
D A T A
S H E E T

TREMCO

Dymonic NT

HIGH PERFORMANCE, ONE PART, LOW MODULUS POLYURETHANE ELASTOMERIC SEALANT

Key Benefits Summary

- ☐ One component, ready for 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.

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.

PRODUCT INFORMATION

DESCRIPTION

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

USAGE/PURPOSE

Dymonic NT is a versatile joint sealing compound for building construction. It is 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 concrete construction and curtain wall joints.

Suitable for sealing :

☐ Wide vertical joints up to 100mm

Also for perimeter caulking and bedding of :

☐ Windows, doors, panels etc.,

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

COLOURS

White, Black, Buff, Aluminium Stone, Dark grey

PACKAGING

Dymonic NT is packaged in 600ml sausages (20 per carton)

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
  0.13 MPa
- ☐ 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.

Dymonic NT

USAGE GUIDELINES

JOINT DESIGN CONSIDERATIONS

- ☐ Joints should be designed in accordance with BS 6093
- ☐ For the purpose of joint width calculation in BS6093 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-porour 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 TREMCO 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
  - provide a firm base for tooling
- ☐ Where joint depth is insufficient to allow the use of a polyethylene foam rod, a silicone faced self adhesive bond breaker tape should be used

PRIMING

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

METHOD OF APPLICATION

- ☐ Application should be in accordance with BS 8000:16 “Code of practice for sealing 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

(Approximate Linear Metres per 600ml sausage)

WIDTH	6mm	10mm	20mm	25mm
DEPTH	(min)			
6mm	16.7	10.0	-	-
10mm	-	-	3.0	-
12mm	-	-	-	2.0

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 AND SAFETY PRECAUTIONS

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

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specifications of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.
Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.
All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

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