ADT PU PRIMER

SEALANT ADHESION PRIMER — FOR ADT SEAL MPU 150 SYSTEM | 1K | ISOCYANATE FREE

POROUS & CRITICAL SUBSTRATES · DEEP PENETRATION · FAST FLASH-OFF · ONE-COAT

TECHNICAL DATA SHEET Version 1.0 | September 2026

PRODUCT DESCRIPTION

ADT PU Primer is a one-component, low-viscosity, solvent-based adhesion primer engineered as the system partner of ADT Seal MPU 150 joint sealant. Brushed onto prepared joint faces, it penetrates and binds porous substrates — concrete, mortar, masonry, stone — consolidating dust-prone surfaces and forming a tack film that anchors the sealant chemically to the substrate. Like the sealant it serves, the formulation is isocyanate-free, keeping the entire ADT joint system safe and consistent. Required on porous, immersed and high-movement joints; recommended wherever adhesion is critical.

One system, one warranty: primed joint faces + backer rod + ADT Seal MPU 150 — specified together, applied together.

KEY FEATURES & BENEFITS

System-Matched
Formulated for ADT Seal MPU 150 — adhesion tested as a system, not a guess

Deep Penetration
Low viscosity soaks into porous concrete & masonry — binds dusty, absorbent faces

Isocyanate Free
Consistent with the MPU 150 system — safer handling, food-industry compatible

Fast Flash-Off
Ready for sealant in 30 – 60 minutes — the joint crew never waits long

Wide Open Window
Seal any time within 8 hours of priming — practical for site sequencing

One-Coat Application
Single brush coat on clean faces — no build-up, no film thickness games

High Coverage
A little goes far — hundreds of running metres per litre on typical joints

Adhesion Insurance
2% of the joint cost, protecting 100% of the joint performance

WHEN A JOINT PEELS, NOBODY BLAMES THE PRIMER — BECAUSE THERE WASN'T ONE

Adhesive failure — sealant peeling clean off the concrete — is the most common joint failure on Indian sites, and its most common cause is a skipped primer on a porous, dusty joint face. The sealant gets blamed, the brand gets changed, and the new sealant fails the same way. The primer is the cheapest component in the joint and the difference between adhesion by hope and adhesion by chemistry.

TECHNICAL DATA (typical values @ 25°C / 55% RH)

Chemical Base 1K solvent-based polyurethane-resin adhesion primer — isocyanate-free	**Appearance** Clear to pale amber, low-viscosity liquid
Density ≈ 0.95 – 1.05 g/cc	**Solids Content** 25 – 35% (grade-declared on COA)
Application Method Brush (short bristle) — one thin, even coat on joint faces	**Consumption** ≈ 100 – 150 g/sqm of joint face (substrate porosity dependent)
Flash-Off / Ready for Sealant 30 – 60 minutes @ 25°C	**Open Time (seal within)** 8 hours — re-prime if exceeded
Substrates Concrete, mortar, masonry, stone (porous); consult ADT for metal & glazed surfaces	**Application Temperature** +5°C to +40°C — substrate dry and frost-free
Flammability Flammable liquid (solvent-based) — no smoking, no ignition sources, ventilate	**System Partner** ADT Seal MPU 150 modified PU joint sealant
Packing 1 L can (500 ml planned)	**Shelf Life & Storage** 12 months — tightly sealed original can, 5°C – 30°C, away from heat & ignition

PRIMER COVERAGE CALCULATOR

Formula: Primed face area per metre = 2 × Depth (m). Litres = joint length (m) × face area × 0.12 kg/sqm ÷ density. Rule of thumb: 1 L primes ≈ 200 – 350 running metres depending on joint DEPTH — deeper joint, more face, fewer metres.

Joint Size (W × D mm)	Primed Face Area per m	Running Metres per 1 L	With MPU 150 Sausages*
10 × 10	0.020 sqm	≈ 350 m	1 L primes ≈ 58 sausages' work
15 × 10	0.020 sqm	≈ 350 m	≈ 87 sausages' work
20 × 12	0.024 sqm	≈ 300 m	≈ 120 sausages' work
30 × 15	0.030 sqm	≈ 230 m	≈ 175 sausages' work

**Shows how far one litre goes against sealant consumption — the primer is a fraction of system cost. Table figures at the conservative end (150 g/sqm); rough, very porous faces will consume the higher side — plan at table values, enjoy the surplus. Worked example: 60 m podium joint (20 × 12) → 60 ÷ 300 = 0.2 L → one 1 L can covers the job five times over.*

APPLICATION METHOD — STEP BY STEP

Phase 1 — Preparation

1 PREPARE THE JOINT

Joint faces clean, dry, sound, frost-free — grind/brush off laitance and old sealant; blow out dust with dry, oil-free air.

2 BACKER ROD FIRST

Install the backer rod BEFORE priming — primer belongs on the two bonding faces only, never the joint bottom.

3 MASK THE EDGES

Tape the joint edges — primer stains visible concrete and interferes with later coatings.

4 STIR & DECANT

Stir the can; decant a working quantity and reseal the can immediately — solvent flashes off and moisture degrades an open can.

Phase 2 — Priming & Sealing

5 APPLY ONE THIN COAT

Brush a thin, continuous film on both joint faces — wet the surface, do not flood it; no puddles at the rod.

6 FLASH-OFF

Allow 30 – 60 minutes until touch-tacky/dry — solvent must leave before the sealant goes in.

7 SEAL WITHIN THE WINDOW

Gun ADT Seal MPU 150 within 8 hours of priming. Window missed? Re-prime — never seal over a dead primer film.

8 TOOL & CURE AS PER SEALANT TDS

Complete the joint per the MPU 150 data sheet — tool dry, pull tape, protect from rain 4 – 6 h.

Note: Ventilate enclosed spaces; no smoking, sparks or hot work near open primer. For metal, glazed and immersed-joint priming, consult ADT technical support for the correct grade.

6 SITE MISTAKES THAT WASTE A PRIMER

Skipping primer on porous concrete
Dusty, absorbent faces give adhesive failure — the #1 cause of peeled joints

Priming over dust
Primer binds a clean surface — it cannot glue dust to concrete; blow out first

Flooding the joint
Puddled primer stays soft and becomes a bond-breaker — one THIN coat only

Sealing too early
Trapped solvent = bubbles and soft sealant — respect the 30 – 60 min flash-off

Sealing too late
Past 8 hours the film is dead — re-prime, never “chalega” over it

Open can on site
Solvent evaporates, moisture enters — decant, reseal, and the can lasts its shelf life

WHERE PRIMING IS MANDATORY vs RECOMMENDED

Porous Concrete & Mortar	Masonry & Stone Joints	Immersed / Wet-Service Joints	High-Movement Joints (±35%)
MANDATORY — absorbent faces	MANDATORY — dusty substrates	MANDATORY — with system approval	MANDATORY — full adhesion demand

Precast Panel Joints	Facade & Curtain Wall	Floor Expansion Joints	Dense / Non-Porous Faces
Recommended	Recommended	Recommended — traffic loading	Consult ADT — grade selection

SYSTEM PRODUCTS

ADT Seal MPU 150 — the joint sealant this primer serves · Closed-cell PE backer rod — through ADT · ADT Strongbond — MS polymer adhesive-sealant · ADT Kavach Coat — liquid membrane over sealed joints

FOR CONSULTANTS — READY SPECIFICATION CLAUSE

Copy this clause directly into your BOQ / tender specification:

"All porous and absorbent joint faces shall be primed with ADT PU Primer or approved equivalent — a one-component, isocyanate-free, solvent-based polyurethane adhesion primer applied as a single thin brush coat at approximately 100–150 g/sqm of joint face, allowed to flash off 30–60 minutes, with the joint sealed using ADT Seal MPU 150 within 8 hours of priming; joints exceeding the open time shall be re-primed."

PRECAUTIONS

FLAMMABLE — keep away from heat, sparks, open flames and hot work; no smoking during use; ensure ventilation, especially in pits and enclosed joints. Avoid breathing vapours; wear solvent-resistant gloves and safety glasses. Do not apply on damp or frosted faces. Reseal the can immediately after decanting. Keep out of reach of children. Dispose of solvent waste per local regulations — never into drains.

IMPORTANT NOTICE

The information in this data sheet is based on our current knowledge at the time of publication. All values are typical and subject to change without notice; final values as per manufacturing partner COA. Users should verify adhesion on their specific substrates by trial before large-scale use. For joint system design and primer grade selection, contact ADT technical support on the toll-free number below.

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