ADT INDUSTRIES
ISO 9001: 2015 COMPANY

PU SEALANT

CC STORE

ADT SEAL MPU 150

One part, Non sag Polyurethane sealant for Construction

DESCRIPTION :

ADT SEAL MPU 150 is a one component, moisture curing, non-sag, gun-grade polyurethane elastomeric sealant based on the pioneering silane cure technology. It is designed to seal construction joints that are subject to movement. After cure, ADT SEAL MPU 150 forms a flexible resilient seal that has adhesion to a wide variety of substrates and exhibiting excellent mechanical and chemical resistance. It is ideal for use in hot and tropical climatic conditions.

USES :

ADT SEAL MPU 150 is designed for sealing expansion and control joints, pre-cast concrete panel joints, window perimeters, steps, risers, roof and tilt-wall joints and between construction materials of dissimilar expansion coefficients. It is ideal for sealing in the food industry and clean rooms where LOW VOC sealant is recommended.

CHARACTERISTICS / ADVANTAGES :

- Movement capability of ± 35 % (ASTM C 719)
- Excellent mechanical and chemical resistance
- Bubble-free curing
- Good adhesion to most construction materials
- Jet fuel and diesel resistance
- Solvent-free
- Very low emissions (VOC < 30 g/L)
- Paintable with water and PU based paint
- Exterior and interior application
- UV stable
- Solvent and Isocyanate free
- Virtually odourless
- Non-corrosive

helpdesk@adtchemical.com 022 4617 3853 www.adtchemical.com

Registered Office : Raheja Arcade, Block-1, Plot-61, Sec-11, CBD, Belapur, Navi Mumbai - 400 614

COMPLIANCE & STANDARDS :

- ASTM C-920 Types S, Grade NS, Class 35, Use NT-A, Use M-A and Use 0-A
- DIN EN ISO 11600 – Type F – Classification 35 LM
- US Fed Spec TT-S-230a Type II
- ISO 9001 : 2015, ISO 14000 : 2015,
- IATF 16949 : 2016

TYPICAL PROPERTIES :

- Appearance - Non-sagging paste
- Colour - Grey / White / Black
- Tack free time @ 25°C / 55% RH - 20 mins Approx
- Curing speed @ 25°C / 55% RH - 2.5 to 3.0 mm / 24 hrs
- Slump / flow (vertical and horizontal @ 5°c and 50°c - 0 (No Failure)
- Specific gravity - 1.45 +/- 0.05
- Hardness (shore A) - 35 +/- 5 Approx.
- Staining and colour change - No staining and no colour change
- Elongation at break - >600 %
- Tensile at break - 1.5 MPA approx
- Shrinkage on curing - < 2%
- Application temp - 5°c to 40°c
- Service temp - -60°c to 110°c

TYPICAL PROPERTIES :

Ensure joint sides are clean and dry. Remove any laitance, dirt or other contaminants by wire-brushing, grinding or grit blasting

Priming is not generally required. Highly absorbent substrate should be primed
Apply a thin coat of primer on the substrate to be sealed and allow to dry for some time.

Insert the sealant sausage in the sausage gun. Cut end off sachet and attach cap and nozzle and cut nozzle to desired bead size. Mask joint sides and insert a suitable backing rod if required. Extrude firmly into joint and tool off using a suitable curved tool. Tool the sealant immediately with tooling knife by pressing against the joint to remove air pockets & to ensure 100% contact and adhesion with the surface.

Fix a bond breaker tape over the backup material to prevent third surface adhesion. Fix a masking tape on both sides of joint surface to get neat & clean appearance of joints after application of sealant. Use only water (or a very mild detergent) to finish the surface.

TYPICAL PROPERTIES :

After sealing the joint the tools and equipments should be cleaned immediately with kerosene or any other cleaningsolvent

PRECAUTIONS & LIMITATIONS :

- Maximum width for application in a joint is 35 mm
- Minimum depth of seal is 3 mm
- Do not expose the sealant to high temperatures above 110°C
- Avoid application on damp and moist substrates and at Temperature below 5°C
- Sealant will not adhere to substrates with contamination and traces of bitumen
- Adhesion of the sealant must only be on two opposite faces
- Do not carry out sealing operations during hot weather conditions
- Application to be started only after 30 minutes of priming the substrate

JOINT DESIGN :

For various reasons, different types of joints are provided with width depth ratios in different proportions. Depending on the horizontal or vertical movements, the cured sealant should retain its original shape after the deformation of expansion/contraction. So width depth ratio is important

WIDTH: DEPTH RATIO

For 3 to 12 mm. joint width - Depth shall be 1:1 (equal)
For 12 to 35 mm. joint width - Depth shall be 2:1 (half)

WIDTH: DEPTH RATIO

Material should be stored in a cool and dry place. Temperature of storage should between 5º C to 35º C.
Shelf Life:-12 MONTH from date of manufacture. in above storage condition

PACKING :

ADT SEAL MPU 150 is supplied in 600 ML sausage and packed as 20 piece per box.

Note : The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.