

# DURA BUILD CARE PVT. LTD.



AN ISO 9001 : 2008 COMPANY

## DURASIL TPU

### A Dual Pack PU Modified Sealant in Gun Grade Pouring Grade

#### Description :

**Durasil TPU** is a dual Pack PU Modified Sealant available in Gun Grade and Pouring Grade. **Durasil TPU** – Gun Grade or non sag type is used for vertical and inclined expansion/contraction (movement) joints and **Durasil TPU** Pouring Grade is used for horizontal movement joints. When Pack A and Pack B are mixed, they form a tough flexible rubber like black material with strong adhesive property on most building substrates after primer is used.

**Standards :** Conforms to BS : 5212, Grade B.

#### Uses :

**Durasil TPU** Gun Grade : Vertical/inclined moving joints in bridges, reservoirs, dams, sewage treatment areas and tanks etc.

AND

**Durasil TPU** Pouring Grade: Horizontal moving joints in highways, runways, bridges, factory floors, airport standing areas, reservoirs, tanks, car parks, workshops and garages etc.

**Primer** should be used before application of the above grades of Sealants.

#### Features :

- High flexibility & excellent tensile strength.
- Resistant to UV, oils, aviation fuels, many chemicals.
- Quick initial cure reduces down time.
- Easy mixing & application.

#### Application :

**Joint Preparation :** Surface must be sound, free from dirt, grease/oil and other loose materials.

Use flexible backing rod to adjust width to depth ratio of 2 : 1. For joints with width below 12 mm, width to depth ratio 1 : 1 will do but the depth of 8 mm should be the minimum. To get neat and clean work area, masking tape is recommended.

Brush apply primer on dry surface. Avoid primer over backing rod. Allow the **Primer** to become tacky before application of **Durasil TPU**.

Mix Pack A into Pack B with slow speed stirrer (250 to 400 RPM) until an uniform homogeneous black coloured material results. (Recommended mixing time - 5 minutes). Avoid hand mixing. Mixed material may then be placed over the joints after having them thoroughly prepared. Then leave it to cure to form rubber like material.

**Technical Data :**

Pack A	:	Amber coloured Resin.
Pack B	:	Black coloured Hardener.
Mixing Ratio	:	Normally Pack A : Pack B :: 1 : 5 by weight.
S.G. at 30° C, Pack A	:	1.05
Pack B	:	1.40
S. G. of mixed material	:	1.30 ± 0.04
Yield of mixed material	:	1300 kg./m <sup>3</sup> (approx.)
Joint width to depth ratio	:	2:1. For joints width 12 mm width to depth ratio may be 1 : 1 but the depth should not be less than 8 mm..
Shore "A" hardness	:	20 ± 2 at 7 days.
Elongation at Break	:	250%.
Modulus of Elasticity	:	At 100% elongation, <2.5 kg./cm <sup>2</sup> .
Tensile strength	:	140 kg/cm <sup>2</sup> .
Application Temperature	:	Between 0 to 50° C.
Health & Safety	:	Product is non-toxic when fully cured. Avoid contact with skin. Use gloves.
Pot life at 30° C & 60% RH	:	3 hours (approx.)
Shrinkage	:	Less than 0.8%
Curing, at 30° C/60% RH Initial	:	6 to 8 hrs.
Trafficable	:	24 hrs.
Full Cure	:	7 days.
Movement capacity	:	20 ± 5%
Adhesion	:	Excellent with concrete, brick & masonry over primed surface.
Cleaning	:	Cured product should be removed mechanically.
Packaging	:	6 kg (Pack A : Pack B :: 1 : 5) Primer : 0.50 kg (Pack A : Pack B :: 1 : 1)
Storage	:	Keep the Packs in cool dry place.
Shelf life	:	6 months. May be extended up to 12 months if stored properly.

**IMPORTANT :** Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

**WARRANTY :** Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.