

## EUXIT TG 10

**Product Description** A solvent free , two component preparation of polyurethane base ( polyol mix with isocyanate hardener) .

A highly elastic joint filler product which corresponds to : US federal specification SS-S 200 E-84 .

**Fields of Application** **EUXIT TG 10** is used as a highly elastic, fuel proof jointing filler compound for expandable joints in horizontal & vertical concrete , steel or asphalt surfaces. The main fields of application are for concrete runways at airports and also for road construction and bridge buildings .

### Product Characteristics:

**EUXIT TG 10** is a jointing compound on a polyurethane base . This material hardens almost without shrinkage and after proper hardening has an excellent elasticity. It offers very slight expansion resistance and adapts itself to joints with relatively high movement, without thereby causing undue stresses on the adhesive surfaces .

**EUXIT TG 10** is resistant to diluted acids . alkaline solutions , saline solutions , waste water and aliphatic hydro-carbons such as petrol , oil , braking fluid . Other solvents will cause blistering .

**EUXIT TG 10** is resistant to constant temperatures and temperature variations from -30 oC to + 120oC dry heat , and up to + 50oC wet heat .For short periods **EUXIT TG 10** can withstand considerably higher temperatures .

Total permissible movement of the joints is approximately 25% of the joint width .

### Technical Data

	<b>liquefiable</b>	<b>Viscuss</b>
Viscosity at 20oC (sec)		
Specific gravity at 20oC (g/cm3)	1,25	1.1
Mix ratio (by weight)	9 : 1	9:0.97
Pot life at 10oC (hours)	2	2
Pot life at 20oC (hours)	1	1
Pot life at 30oC (hours)	½	½
Minimum hardening temperature (°C)	5	5
Traversable at 20oC (hours)	4	4
Thorough hardened at 20oC (days)	4	4

	<b>liquefiable</b>	<b>Viscuss</b>
Shore a hardness	10	10
E-module at 100% expansion at -20oC N/mm2	0,25	0.25
E-module at 100% expansion at + 20oC N/mm2	0,1	0.1
E-module at 100% expansion at + 80oC N/mm2	0,05	0.05
Max. . joint movement (%)	25	25
Reversible compression (%)	90	90
Storage life in months at 20oC	12	12

**Standards** Complies with BS 5212-76 , TT-S-00227 E Type II class A

**EUXIT TG 10** is a polyurethane preparation , whereby it is somewhat reactive to moisture . Moisture from the under surface can impede the adhesion of the jointing compound to the joint faces and the reaction causes the hardener to become bubbly .

Similarly , rain within a few hours of applying the jointing filler can produce a bubbling of the top surface .Afterwards this just shows as a browning ,but no further damage to the filler .

**Surface Preparation** Cement bound surfaces should be dry , firm , of good traction and free of dust and dirt particles , and additionally free from oil , grease and other impurities which act against good adhesion .If necessary , sand blast , brush or grind .

Iron and steel must be rust and scale free , and free from oil , dust , grease and other impurities .If necessary sand blast .

Asphalt should be firm , dry , free , of dirt particles and extrusions from the asphalt , dust , oil and grease . In addition , at least 75% of the additives (granulation) lay clear or the top surface. If necessary , cut the joints or sand blast .

**Application:**

**- Underlining the joints**

With compatible joint filler compound , preferably round closed pore compound , pre-line and fix on the correct joint depth .The most compatible are closed cell polyethylene foam or joint varns (foam rubber) as used road construction .

**- Under coat the joint faces with EUXIT TG 10**

Depending on the absorption of the surface a double primer at an interval of about 1/2 hour may be necessary .The primer must leave a visible film on the joint faces . The time required for drying is 24 hours at 20oC .

**- Applying the joint filler**

The properly mixed **EUXIT TG 10** should be poured into the joints .

Joint dimensions and material consumption :

The durability of any joint sealing is dependent on the right dimensions for the joint. The joint width must be so determined that the maximum potential expansion of the material does not exceed 25 % of the joint considered over the long term . The following tables give the correct values for joint dimensions and consumption for butt joints and sliding joints .

**SCHEMATIC DIAGRAM OF BUTT JOINT WITH OPTIMUM JOINT FORMATION**

**Load : pressure and stress**

**EUXIT TG 10** round closed cell material.

<b>Joint Width In mm</b>	<b>Joint Depth In mm</b>	<b>Material in cm<sup>3</sup> P. running meter</b>
6	6	36 ml
8	8	64 ml
10	10	100 ml
12	10	120 ml
15	12	150 ml
20	12	240 ml
20	13	300 ml
50	20	1000 ml

The best guarantee for a good joint is dependent on the correct joint dimensions or the design of the joint .

## **SCHEMATIC DIAGRAM OF A SLIDING JOINT WITH OPTIMAL DESIGN**

Load : shearing stress

**EUXIT TG 10** round closed cell material

<b>Joint Width In mm</b>	<b>Joint Depth In mm</b>	<b>Material in cm<sup>3</sup> P. running meter</b>
5	6	30 ml
6-8	8	60 ml ca.
8	10	80 ml
8-10	12	110 ml
10	15	150 ml
12	20	240 ml
12	30	360 ml
15	50	750 ml

The best guarantee for a good joint is dependent on the correct joint dimensions or the design of the joint .

### **CONTAINER SIZES AND COLOUR SHADES**

**EUXIT TG 10** is supplied in containers of 5 kg .

Resin and hardener are supplied in correct mix ratios .

Colour : gray .