

**Tennis Court Mastic & Bitumen Filler Base
with High Performance System****Underlayment for All Kind, Sport Floor Mastic Base Coat**

Applied for Tennis Courts, Baseball Courts, Play Ground Courts
& Other Sport Flooring System.

Thickness Applied From 2.00mm until 6.5mm

PRODUCT DESCRIPTION

Teni Seal AC, is a moisture curing, Bitumen Polymer Adhesive + Calcium Carbonate + Cement + Silica Sand. This product is former as high abrasion resistance, durabla prepolymer elastomer binder/sand filler with excellent adhesion to most commonly available shredded or asphalt premix and concrete surfacing.

Advantages

Goods for Self-levelling, High Compressive Strenght
High Tensile Strength, High Abrasion Resistance
No Crack at 10mm Thick, Goods Bonding/Adhesion to Sub-based

Description:

At Tennis Court Coating System is a cold applied jointless bitumen-based with clay stabilized elastic emulsion. It is suitable for use on most building materials such as concrete and brickwork and easily applied by brushes on dried concrete surfaces, and also to green concrete.

It can be applied as a built-up layers of 3-6 layers coat system.

Teni Seal AC BX is specially formulated to provide high water vapour permeability with very high resistance to re-emulsification with water.

Teni Seal AC FX which is reinforced with non asbestos fibre is suitable for low traffic movement.

Teni seal AC LX with Latex is suitable for damp-proofing. It is also highly adhesive and bonds tenaciously to most substrates.

Outstanding Features:

- Micro porous allowing breathing to stop blistering.
- No re-emulsification in water.
- Non toxic, odour & taint free.
- Jointless finish.
- High temperature stability.
- Ease of application.
- Superb adhesion.
- Solvent free – environmental friendly.

Technical Specification Properties:

TYPICAL PROPERTY	Teni Seal AC BX	Teni Seal AC FX	Teni Seal AC LX
Residue by evaporation, %	47 - 55	47 - 55	47 - 55
Bitumen modifier	~	~	Latex
Ash content, %, max	30	30	20
Specific gravity at 25°C, g/cm ³	0.99 – 1.03	1.03 – 1.05	0.99 – 1.03
Flammability	Non-flammable when wet.	Non-flammable when wet.	Non-flammable when wet.
Drying time (firm set)	4 – 6 hrs under normal condition.	4 – 6 hrs under normal condition.	4 – 6 hrs under normal condition.
Heat resistance, at 100°C	No flow, sag or blistering.	No flow, sag or blistering.	No flow, sag or blistering.
Direct flame test	Coating chars in place	Coating chars in place	Coating chars in place
Water vapour transmission	~	~	1.1 g/ m ² / 24 hrs
Reinforcement	~	Non asbestos mineral fibers.	~
Flexibility at 0°C	No cracking or flacking	No cracking or flacking	No cracking or flacking
Water resistance	No blistering re-emulsification in water.	No blistering re-emulsification. Suitable for lining water tanks.	No blistering re-emulsification in water.

STANDARD CUSHION BITUMEN MASTIC SURFACING

NO.	DESCRIPTION	MATERIAL	NO. OF COATS	RATE / COAT LITRE /M ²
1.	Prime Coat *	Teni seal AC BX : 1 Water : 1	1	0.35
2.	Filler Coat (Volume Ratio)	Cement : 1 Aquaseal BX : 2 Sharp Sand : 4	2	0.50
3.	Texture Coat	Teni Coat UV (Green)	2	0.35
4.	Lining Coat	Teni Coat UV (White)	2	0.35

FOR ADDITIONAL CUSHION MASTIC SURFACING

NO.	DESCRIPTION	ATSB MATERIAL	NO. OF COATS	RATE / COAT LITRE /M ²
1.	Prime Coat	Teni Seal AC BX :1 Water :1	1	0.35
2.	Filler Coat # (Volume Ratio)	Cement : 1 Teni Seal AC BX : 2 Sharp Sand : 4	6	1.50
3.	Texture Coat	Teni Coat UV (Green)	2	0.35
4.	Lining Coat	Teni Coat UV (White)	2	0.35

* Prime coat is required for repair works for old premix surface.

Additional cushioning by increasing the number of coats on filler coat.

Teni seal AC Range System APPLICATION FOR TENNIS COURTS CONSTRUCTION**INTRODUCTION**

Teni Seal AC tennis court are fast, true and available for play immediately after rain.

As it is necessary to obtain a very satisfactory construction, **Teni Seal AC** tennis courts should be constructed only by experienced contractors.

DRAINAGE

In the construction of a good Teni Seal AC tennis court, the proper drainage is of the utmost importance. In sandy or gravelly soil, under drainage may not be required, but in heavy clay soils it is desirable to dig a ditch around the entire court, with sufficient gradient and outlet to prevent accumulation of water. The ditch should be 600mm. to 900 mm. in depth, with a perforated corrugated iron pipe, or open clay tile at the bottom and should then be backfilled with broken stone or coarse gravel to within the surface. Since the Teni seal top will be impervious to water, surface drainage may be obtained by finishing to a suitable gradient.

LAYOUT

The paved area of a tennis court should be 18.3 metres by 36.6 meters (60 feet by 120 feet) which give ample room outside the limits of a double court, 10.98 metres by 23.79 metres (36 feet by 78 feet) for play.

It is preferable to have the entire surface in one plane but this is not practicable because of the topography, the slope may drop each way from the net. The usual gradient should be 25 mm. to 3.05 mm. metres (1 inch to 10 feet), on a single plane, one end of the court 305 mm. (1 foot) lower than the other. For a slope either way from the net, each end is 152 mm. (6 inches) lower than the centre. However in Malaysia, a numerous courts have been constructed to a slope of 25 mm. in 6.0 mm. and these have been found to be satisfactory.

SUB-BASE (Crusher-run)

For the sub-base, good quality lime stone quarry fines satisfactory and compacted depth of 102 mm. to 152 mm. (4 to 6 inches) will be sufficient.

BASE COURSE (Asphalt Premix)

For the base course, a 50 mm. consolidated thickness of dense bitumen macadam or hot roller mix should be laid over the compacted sub-base.

SURFACE COURSE

Specification/Application For Tennis Court Surfacing System.

When the base course is completed, the following surface treatment should be carried out in goods weather conditions :

- a) The surface of the base should be broomed thoroughly to remove embedded dirt, etc.
- b) Apply by brushing a washcoat consisting of Teni Seal AC BX diluted with an equal volume of water, well scrubbed into the surface. This application require Teni Seal AC BX content of 0.3 litre per sq.meter. Allow to dry.
- c) Apply by brushing a tack coat consisting of 5 volumes of Teni Seal AC BX diluted with 1 volume of water which should be allow to dry partially before the Teni Seal AC BX is laid into it. This application require Teni Seal AC BX of 0.5 litre per sq.meter.

d) Teni Seal AC BX [Mastic] Mix

- 1 volume of Portland cement
- 2 volumes of Teni Seal AC BX
- 4 volumes of silica / sharp sand

Teni Seal AC BX required in this mix is approximately 1 litre per sq.metre.

- e) The first layer of Teni Seal AC BX Mastic / Filler coat shall be applied to court surface lengthwise by pouring from a wheeled barrel in continuous parallel lines and spreading immediately with a rubber-faced squeeze and allow to dry.
- f) After the first application of Teni Seal AC BX Mastic had dried proceed to apply the second layer and the third layer of the filler coat breathwise and allow to dry. The overall thickness for the 3 layers of mastic is approximately 3mm.
- g) As soon as the Teni Seal AC BX Mastic has set sufficiently to resist appreciable indentation, use a 140-230 kg. roller to further consolidate the mix.

Tennis Court Texture Finish Coat Layer

- a) The surface of the surface course should then be broomed thoroughly to remove embedded dirt and flush clean water. The surface may be damp but not wet (no puddles) when following treatment is carried out.
- b) Apply by brush, 2 coats Teni Coat UV Red, Blue, Yellow or Green. Allow the first coat to dry before the second coat is applied. Teni Coat UV must be diluted with water before use (2 volumes Teni Coat UV to 1 volume of water). This application requires a Teni Coat UV content of about 0.3 litres per sq.meter.
- c) The lines should then be drawn using Teni Coat UV White.

DRYING TIME

When the above work is completed the court should be closed for a period of minimum 5 days so that the application can dry out completely.

NOTE

- a) This specification is also suitable for the construction of basketball, volleyball and other similar courts.
- b) Under suitable conditions the **Teni Coat AC** is also suitable for surface treatment over existing concrete tennis, basketball, volleyball and badminton courts.
- c) This data sheet is issued as a guide to the use of the product(s) concerned and whilst every effort is made to ensure the accuracy of the text which is in accordance with the latest technical development we cannot accept responsibility for any work carried out with our materials as we have no control over the method of application used or conditions of site involved.

**LaMaCo System Sdn Bhd**

407, Jalan Perusahaan 6, Taman Bandar Baru Mergong,
05150 Alor Setar, Kedah, Malaysia

Tel : +60-4-771 1111 Fax : +60-4-772 4444

Http : www.lamaco.com

Email : info@lamaco.com

Important 1: While the information and data sheet contained in this promotional literature are presented in good faith and believed to be reliable, they do not constitute a part of our terms and conditions of sales unless specifically incorporated in our Order acknowledgement. Nothing herein shall be deemed to constitute a warranty, express or implied, that said information or data sheet are correct or that the products described are merchantable or fit for a particular purpose, or that said information, data sheet or products can be used without infringing patent of third parties.

Important 2: **LaMaCo Malaysia** products are not guaranteed against defective materials and manufacture & are sold subject to its standard Terms & Conditions of sale, copies of which may be obtained on request. Whilst **LaMaCo Malaysia** endeavors to ensure that any advice, recommendation, specification or information is accurate and correct, it cannot- because it has no direct or continuous control over where or how its products are applied – accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance any advice, specification, recommendation or information given by it.

Health & Safety Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LaMaCo Malaysia** on request and sent with each delivery.