ck 86/23380/23. darachem house, 6 mission road, anderbolt, boksburg north.
p.o. box 6008 dunswart 1508. tel: (011) 892 2917/8/9, fax: (011) 892 1519.
email: info@darachem.co.za

Daraflexsystem

WATERPROOFING OF PLANTERS AND FLOWER BOXES

Discussion

The requirements of a waterproofing system for the above are: Resistance to constant dampness. Resistance to root penetration. A degree of mechanical resistance, as spades and gardening forks are used in the course of garden maintenance.

Drainage stones are normally placed beneath the soil and separated by a layer of geo-fabric.

Surface Preparation

All forms of surface contamination must be removed to ensure a smooth surface, free of any loose material, or any other barrier to adhesion. Cracks and voids in the surface must be made good using HYPERCRETE, a plasticized cementitious material and allowed to cure for a minimum of 12 hours. Should the planter box consist of a bricked structure, the whole internal area can be leveled using HYPERCRETE.

Application

Apply by brush or roller one coat of DARAFLEX PRIMER (60 part water, 40 part product) at the rate of 6m2/l. Allow a minimum of 30 minutes drying at 25o C and 60% R.H.

Apply at the rate of 1L/m^2 undiluted DARAFLEX and immediately embed the SBP Geo-Fabric into the wet product ensuring no creases or folds in the material. Work the membrane into the DARAFLEX using a brush. Product should be evident “striking through” the membrane and if this is not the case, too little product has been applied. At this point additional DARAFLEX at the rate of 1L/m^2 should be applied in 100 mm wide strips along the edges of the membrane.

Apply the second run of membrane into the bedding coat in the same manner ensuring an additional coat at 1L/m^2 between the two layers of membrane at the 100 mm overlap.

After allowing a minimum drying period of 45 minutes at 25o C and 60% R.H. apply a coat of diluted DARAFLEX (90 part product, 10 part water) at the rate of .75L/m^2. Allow a minimum of 45 minutes drying period and:

Apply a further similarly diluted final coat of DARAFLEX at the rate of .75L/m^2. It will be noted that a total of 2.5L/m^2 of DARAFLEX has now been applied. The minimum weight of the membrane alone shall be 130g/m^2. The total weight per m^2 shall therefore be:

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$$\frac{2.5}{1} \times \frac{55}{100} = 1.375 \text{ Kg/m}^2 + .130 = \frac{1.505}{\text{kg/m}^2}$$

Finish Coat

In order to provide mechanical protection, it is recommended that the flower box cavity is lined with cement fibre board, soft board or equivalent.