Proposal

To provide a protective and decorative coating to protect concrete from attack by acidic gases, chloride ions, sulphates and water in cases where inadequate concrete cover has been provided.

1 Substrate preparation

1.1 All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth, laitance, and all traces of mould release oils and curing compounds. This is best achieved by lightly grit-blasting the surface. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the grit-blasting process.

1.2 It is essential to produce an unbroken coating of Dekguard S. To ensure this is achieved, surface irregularities should be filled using the appropriate Renderoc product (see Section 2.2). Materials used should be allowed to cure properly before application of Dekguard S**.**

2 Substrate priming

Note
A primer coat is required to penetrate and 'stabilise' the substrate. The depth of penetration of the primer, and thus its coverage rate, are determined by substrate profile, porosity and general condition.

Hence for low permeability concretes, primer penetration will be low and area covered per litre will be high - permeability may be affected by cement replacements (e.g. microsilica). It is thus recommended that a general coverage rate of 4m^2/litre be observed (see Table 1, below), noting that this may change according to substrate condition.

2.1 In order to obtain the protective properties of the Dekguard S system, it is important that the correct rates of application and overcoating times are observed.

2.2 The primer should be applied in one or more coats until the required rate of application has been achieved. This is best accomplished by using portable spray equipment of the knapsack-type.

2.3 A uniform surface appearance (sheen) should be apparent when the required rate of application has been achieved. If any matt, porous patches remain, then a further application of the primer should be made.

2.4 Whilst Dekguard Primer is normally used, porous substrates may require the use of Dekguard Primer DG. Use of Dekguard Primer DG is identical, and should once more be applied in one or more coats until the required rate of application has been achieved.

2.5 If in any doubt about the condition of the substrate, or priming required for a particular substrate, then contact the local Fosroc office.

Note
The above information is for application procedure guidelines only. All materials must be mixed and applied strictly in accordance with instructions given on the relevant technical data sheets.

Refer to Section for high temperature working.

Table 1

		Dekguard Primer or Dekguard Primer DG	Dekguard S
Number of coats	:	Flood coat	2
Theoretical application rate per coat	:	0.25 litres/m^2	0.175 litres/m^2
Theoretical wet film thickness per coat	:	N/A	175 microns
Overcoating time -			
@ 20°C		2 hours	6 hours
@ 35°C		1 hour	4 hours

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3 Coating application

3.1 The primer should be allowed to dry for a minimum of two hours at 20°C (or 1 hour at 35°C) before application of Dekguard S. Under no circumstances should the primer be overcoated until the surface is properly dry.

3.2 Dekguard S may be applied by the use of suitable brushes, rollers or airless spray equipment. Queries relating to spray application should be referred to the local Fosroc office prior to the commencement of work.

3.3 All primed substrates should be treated with two coats of Dekguard S. The material should be stirred thoroughly before use.

3.4 The first coat should be applied to all areas to achieve a uniform coating with a wet film thickness not less than 175 microns. This coat should be allowed to dry before continuing.

3.5 Prior to application of the second coat, a close visual inspection of the surface should be made to check for any pinholes or surface irregularities. Any such irregularities should be filled using Dekguard Filler, and allowed to dry before proceeding.

3.6 To ensure a final full unbroken coating to the substrate the second coat of Dekguard S, should be applied at 90° to the first coat. Again exactly as detailed above and achieving a wet film thickness not less than 175 microns.