

Dura-Systems Catalyst DS-C

Technical Data Sheet



Product Description

The manufacture of polymers through the interlinking of many small molecules is known as polymerization (hardening). In Dura- Systems membranes, this hardening mechanism is triggered by the addition of a hardening powder (dibenzyl peroxide or BPO for short). The hardening powder sets off a chain reaction and can therefore be regarded as the initiator for a chemical reaction.

Dosage

The quantity of catalyst powder required depends on temperature and can be taken from the relevant product data sheets in the "catalyst dosages" table. The quantities of hardening powder are indicated as a percentage by weight (pbw.) related to the proportion of resin.

More catalyst powder is advisable for

1. Coating over thicker old methacrylic coatings.
2. Sealing of self-levelling, smooth methacrylic coatings not sprinkled with sand or colour flakes.

However, you must not use less than the quantity of hardening powder indicated in the respective product data sheets, as this will jeopardize the curing process. You must also avoid overdosing the hardening powder, as this can likewise lead to serious curing problems triggered by excessive temperatures.

Catalyst quantities are best dosed by means of an electric scale. Should there be no scale on the building site, graduated measuring beakers can be used instead; in this case the quantity of catalyst must be converted from weight to volume. Measuring beakers with a special BPO scale can be obtained from Garland.

Application

The catalyst powder must not be added to the corresponding Dura- Systems membrane until immediately before application. In the case of pourable mixes, the catalyst should be the last component added, while for mortars or very thixotropic resins the full amount of filler or thixotropic agent should be stirred in first. Only in this way can the catalyst dissolve evenly within the mixture.

The catalyst powder must always be stirred into the corresponding mixture or the pure resin until it has completely dissolved. The stirring time will depend on the nature and the condition of the mixing equipment used and on the temperature of the material.

Safety advice

Wear suitable protective clothing (gloves and goggles) when applying. Avoid contact with the eyes and skin. For further information, please refer to the safety data sheet

Catalyst powder must never come into contact with Additive accelerator as this can lead to an uncontrollable explosion. Both substances must be stirred separately into the coating mass (stir before adding!).

Metal vessels (e.g. beakers, shovels) are not suitable for handling catalyst powders.

Lengthy contact could cause an explosion!

In practice, circumstances which cannot always be foreseen in advance (e.g. poor ventilation, colder substrate, thinner coats, or a combination of such circumstances) mean that there is a danger of slight (possibly only localised) hardening problems. In the case the quantity or hardener should be increased as a precaution by 0.5 - 1% on the quantity recommended in the table.

If you require any further information please contact your local Garland Technical Manager.



Garland UK

Second Way Centre, Second Way,
Bristol, BS11 8DF
+44 (0)1174 401050
info@garlandukltd.co.uk
www.garlandukltd.co.uk

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