

OPTAPIX PA 20 G

Temporary binder



Chemical basis:

Polyvinyl alcohols (PVA)

Characteristics:

Appearance: cream-coloured granulate
Solubility: water-soluble
Bulk density: approx. 500 g/l
pH (1 %): approx. 6
Viscosity
(4 %, 20 °C): approx. 20 mPas
Degree of hydrolysis: approx. 88 Mol-%
Residue on ignition: max. 0.5 %

Shelf-life / Packaging:

12 month when stored properly and dry
bags of 25 kg

Application:

OPTAPIX PA 20 G brings about an increase in the green and dry breaking strength. The product is primarily used in plastic bodies on account of its simultaneous plasticizing effect. The mode of action depends on the creation of adhesive forces between the raw material particles. A suitable binder-water ratio allows the formation of a film which attaches itself to the raw material particles.

The amount added is between 0.5 and 2.0 % of the solids content of the body.

The additive should be incorporated into the ceramic body or slip in the form of an approx. 10% stock solution. In order to produce clear, stable solutions the granules should be scattered with stirring into cold water, and then dissolved by heating to approx. 80 °C.

However, ready dissolved polyvinyl alcohol preparations are available as products combined with pressing aids, e.g. OPTAPIX PAF 2. More information concerning the dissolution of polyvinyl alcohols and the ready-for-use preparations is available on request.

Note:

Please note that when using OPTAPIX PA 20 G in stock solutions, glazes and/or body slips, anti-bacterial biocide use is strongly recommended. Consequently, the dosage needs to be adapted to the process conditions. Adequate products and their specific application instructions can be found on our homepage www.zschimmer-schwarz.com or will be sent to you upon request.

The above results have been obtained from trials in our laboratory and plant. In the light of changing conditions they can serve only as a guide and are therefore offered without obligation. We ask you to observe the possible rights of third parties.

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Should foaming occur when the additive is used, it is recommended that our antifoams CONTRASPUM CONC. or CONTRASPUM K 1012 be employed.

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