



OPTAPIX PA 4 G.

Temporary binder



Chemical basis:

Polyvinyl alcohol (PVA)

Characteristics:

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

Shelf-life / Packaging:

12 months when stored properly and dry
Bags of 25 kg

Application:

OPTAPIX PA 4 G. brings about an increase in the green and dry breaking strength. Owing to its good general slip compatibility, this additive is especially suitable for the preparation of ceramic bodies by spray-granulation followed by isostatic pressing.

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. 20 % 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 agents, e.g. OPTAPIX PAF 2.

Please note that when using OPTAPIX PA 4 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 the antifoams CONTRASPUM CONC. or CONTRASPUM K 1012 be employed.

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