



**PRODUCT INFO
& DATASHEET**

SICOL YELLOW AND RED

NATURAL PIGMENTERS

Sico's solution for natural pigmentation at affordable cost !

COLOUR IS A GUARANTEE OF GOOD QUALITY

The use of fresh feed with high carotenoid content in traditional poultry breeding allows great assimilation and deposition of xanthophylls in the skin and egg yolks, which acquire a characteristic yellow gold colour. For many generations, this colour has been an indication of product quality. On the other hand, industrial poultry production needs the use of balanced feed that ensures the required nutrients with an optimal price. Feed raw materials usually lack the minimum carotenoid sources that would give a quality colour.

THE USE OF PIGMENTERS

This provides the advantage of incorporating pigmenters into feed formulas and correcting the lack of carotenoids. There is a general trend towards the use of natural substances in the production of food that will ultimately be consumed by humans. For this reason, the use of natural pigmenters is plainly justified.

NATURAL PIGMENTERS

In nature, there are other sources rich in carotenoids that could provide the required pigments in feed formulation. Taking advantage of them is an attempt to return to the traditional feeding, but without giving up profitable production. Aware of these circumstances SICO offers series of natural yellow (SICOL YELLOW) and red (SICOL RED 5) pigmenters

SICOL YELLOW

SICOL YELLOW is a xanthophyll concentrate extracted from selected petals of marigold flower (*Tagetes erecta*). SICOL YELLOW contains yellow xanthophylls being the major part lutein and in a smaller quantity zeaxanthin. Both of them have a great bioavailability. The SICOL YELLOW xanthophylls are standardized and completely stabilized in their «all trans» configuration, which improves the pigmentation capacity. SICOL YELLOW is available in two qualities, saponified and esterified.

SICOL YELLOW 20 S : obtained by controlled saponification of the marigold extract. Specially indicated for broiler and egg yolk pigmentation as bioavailability is improved.

SICOL YELLOW 40 : containing esterified xanthophylls with enhanced stability. Indicated for egg yolk pigmentation. The recommended doses depend on the desired colour and the xanthophyll content of the basic ration. The usual dosage ranges are :

SICOL YELLOW 20 S : 0.1- 2 kg/MT

SICOL YELLOW 40 : 0.05 - 0.9 kg/MT

SICOL RED

SICOL RED 5 contains red xanthophylls extracted from mature, selected peppers (*Capsicum annum*)

SICOL RED 5 assures a standardized amount of 5 g Paprika xanthophylls per kg of product, being the major part capsanthin in a smaller quantity capsorubin.

SICOL RED 5 improves considerably the bioavailability of the red xanthophylls in comparison with the original extract.

SICOL RED 5 supplies the necessary red xanthophylls to confer an orange hue to the egg yolk and broiler skin.

SICOL RED 5, thanks to the improved bioavailability, can be used in a feed to complete the red xanthophyll supply. The usual dosage of SICOL RED 5 ranges from 0.1 to 1 kg/MT of feed, in function of the basic ration xanthophyll content. In salmonids, dosage is established according to the nutritionists criterion.